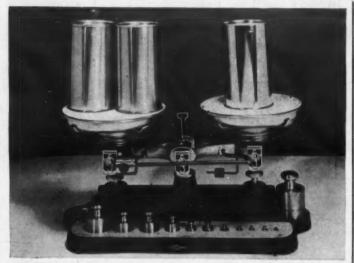
# Purchasing Week

Price Perspective ..... 2 Washington Perspective ..... 4 Purchasing Week Asks...... 11 Foreign Perspective ....... 16

Vol. 3, No. 18

New York, N. Y., May 2, 1960

\$6 A YEAR U.S. \$25 A YEAR FOREIGN



TIN PLATE CANS: Two cans (left) made from U. S. Steel's new tin plate weigh only as much as single can (right) made by regular process.

## Steel Fights Back in Can Market; Firms Testing New Skin-Thin Plate

Pittsburgh-Metal container buyers now have the first "solid" details on U. S. Steel Corp.'s development of a lighter, thinner tinplate.

The almost skin-thin product, aimed at fortifying steel against further inroads by competing container materials—particularly

aluminum — is already being tested by several big can manufacturers. They are experimenting to determine where it can be used to best advantage.

U. S. Steel said last week it is seeking a patent on its method of making the tinplate, now produced in pilot plant operations in weights ranging from 40 lb. to 60 lb. per base box (217.78 sq. ft. of plate). Most tinplate now used by can producers is in the 75 lb. to 100 lb. base box weight

The new product is said to be half the thickness of the tin-plate now used in can manufacturing. It is the result of large investments made at the com-pany's research center here.

Robert B. Meneilly, general manager of tin mills products for the giant steelmaker, says the (Turn to page 26, column 3)

# Industry Again Digs Deep to Get

New York-The current capi-New York—Ine current tal equipment buying surge is momentum. Top still gaining momentum. Top business leaders again have upped their plans for purchases of plant and machinery, and now see '60 outlays hitting a peak \$37.9-billion, 16% over last year.

That's the major finding of the thirteenth annual survey of Business' Plans for New Plants and Equipment, conducted by the Mc-

Graw-Hill Dept. of Economics.

The sharp 16% increase anticipated for this year is significantly above the 10% boost an-

(Turn to page 4, column 1)

# Shippers Gear for Benefits as First Guaranteed' Rail Rate Takes Effect

**Economist Urges** 

Get the Best Deal

Here or Abroad

executives consider the effects on

the entire U.S. economy when deciding whether to buy abroad?

One basic—though highly controversial—answer to this question was offered by a prominent

St. Louis University professor last week during the Eighth An-nual Purchasing Management

Conference here on "Why Buy

ate professor and director of the University's Department of Eco-

nomics, told P.A.'s gathered at the conference: "Your job is not

making foreign or public policy,

but how to get the best deal for your company regardless of the

Joseph P. McKenna, associ-

Foreign?

St. Louis-Should purchasing

# Fewer Varieties Cut Costs, Standards Expert Tells P.A.'s

Philadelphia—Purchasing agents must concern themselves more with eliminating "items varieties" if they are to help their companies clamp the lid down on mounting indirect costs.

This change-in-emphasis on cost reduction problems will be one of the major points stressed during a two-day spring meeting of the American Standards Asso-

ciation, opening today at the Sheraton Hotel.

The entire opening session is devoted to "Motivations for Reducing Item Varieties," which will deal primarily with the factors necessary to simplify and improve inventory control and purchasing procedures.

During a pre-meeting inter-

During a pre-meeting interview, R. J. Abele, chief standards engineer for Burroughs Corp., Detroit, who will preside over the session, told PURCHASING WEEK:

"Cost reduction methods have all been directed toward cutting direct costs. Time and motion studies, and material and quality control programs have been slashing direct costs for years, (Turn to page 27, column 1)

### Buyers Eye Disposable Tools at Detroit Show

Detroit—Throwaway tooling was the featured star of the American Society of Tool and Manufacturing Engineers' 1960 show here last week. Over 41,-000 people flocked to the artillery armory to see the latest in disposable insert tooling and

metal working equipment.

Pricing policies also came in for their share of attention. The recent 12% boost in twist drill and end mill lines of major manufacturers has raised some questions about future price trends. But most observers think the increase will spread to other cutting tools-and many doubt that the current boost will stick.

The consensus among exhibitors, Purchasing Week learned, (Turn to page 26, column 1)



DEMONSTRATION: P.A. Glen Dilling (left) of General Products Co. watches Deka-Drill in action at American Society of Tool and Mfg. Engi-neers' Show held in Detroit.

### Soo Line Installs First Guaranteed Tariffs; **ICC Boosts Forwarders**

Washington-A series of rapid-fire developments in transportation rates last week is almost certain to spark new and numerous benefits for the nation's shippers—as well as arouse bitter opposition among truck

bitter opposition among truck and water carriers.

These developments include:

The first "guaranteed rate" in the nation's history was put into effect by the Soo Line Railroad, Minneapolis, Minn., on Apr. 24 without further ICC intervention. It applies to oil field piping moving from Sault Ste. piping moving from Sault Ste. Marie, Ont., to Chicago. • A second guaranteed rail rate

applying to rugs and carpeting moving from Amsterdam, N. Y., to Chicago was slated to be put into effect by the New York Central Railroad on Apr. 30. As of late Thursday, no move was made

by the ICC or truckers to block it.

• The ICC opened the way for freight forwarders to engage in volume shipments via Plan III piggyback (shipper-owned trailers on rail-owned flatcars) by upholding its previous decision on forwarder volume piggyback rates.

A great deal of confusion still He expressed "surprise" that purchasing agents should even (Turn to page 26, column 4)

A great deal of confusion sin surrounds the manner in which the Soo Line rate, also known as an agreed charge or contract rate, (Turn to page 25, column 3)

This Week's.

# Purchasing **Perspective**

FEWER PAPER SHUFFLERS—If your firm is contemplating a major switchover from old paper shuffling and data collection techniques, here are some of the results you can expect:

• Introduction of electronic computers probably will effect a 25% reduction in the office work force (clerical and accounting

• Inventory facts and figures will accumulate at an amazing pace. Major companies who installed electronic computer setups report they never had so much data about basic production materials and other stock items.

This report on the impact of office automation comes from the Labor Department, which has just completed a major study among 20 large companies covering manufacturing, insurance, public utilities, and petroleum firms.

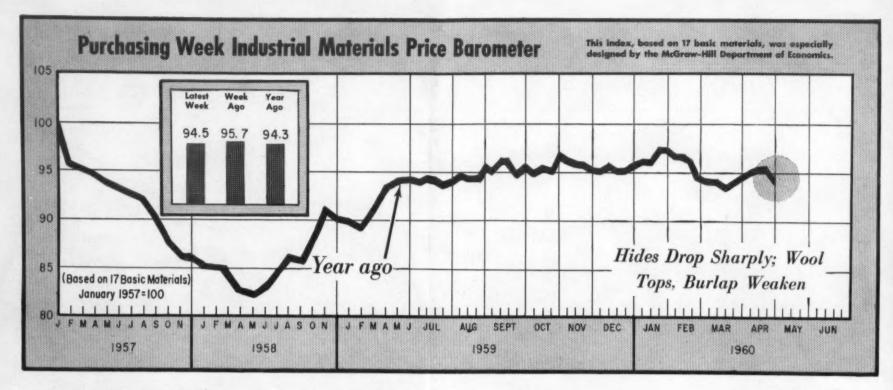
The federal study covered about 2,800 office workers in firms that adopted advanced office automated procedures utilizing computers. And although 25% of those jobs were eliminated, only nine of the 2,800 persons affected were actually laid off.

• About one-half continued to do the same kind of job. Another one-sixth quit, retired, took leaves of absence, or died. Many of these never were replaced.

• Some complications developed in the shifting of personnel to other jobs—especially for older workers and those in supervisory capacities. In many instances it proved difficult to find (Turn to page 25, column 1)

# P/W PANORAMA

- Capital Equipment Buying is surging upward again, according to a new McGraw-Hill survey. And the ramifications for purchasing agents are manifold. The story on page 1 gives the details, and the center-spread on pages 14 and 15 charts them. See also page 2 for a between-the-lines rundown in the Price Perspective column.
- U. S. Business apparently has entered a rare phase stability. Careful analysis of the current signs, as detailed by the story on pages 8 and 9, indicates we've settled on a high plateau of industrial activity that should hold up for at least the rest of 1960.
- If You're Looking for Government Contract Work from military or prime contractors, you'll be interested in how the Small Business Administration recommends you go about it. The story on page 18 outlines the steps SBA urges you to take.
- P.A. Allan R. Dawson made his first attempt at packaging design work when Federal Pacific Electric Co. decided to change its corporate image. The result: He won an award and helped his firm. Dawson credits purchasing know-how in the story on page 24.



This	Was	L'e	Comm	odity	Prices
11112	AA GE	:K 2	COIIIIII	ouity	riices

	Apr. 27 A	nr 20	Veer	96 Val-
METALS Pig iron, Bessemer, Pitts., gross ton. Pig iron, basic, valley, gross ton. Steel, billets, Pitts., net ton. Steel, structural shapes, Pitts., cwt. Steel, bars, del., Phila., cwt. Steel, bars, Pitts., cwt. Steel, bars, Pitts., cwt. Steel, plates, Chicago, cwt. Steel scrap, #1 heavy, del. Pitts., gross ton. Steel scrap, #1 heavy, del. Cleve., gross ton.	67.00 66.00 80.00 5.50 6.20 5.975 5.675 5.30 35.00 33.00	67.00 66.00 80.00 5.50 6.20 5.975 5.675 5.30 35.00 33.00	Ago 67.00 66.00 80.00 5.50 6.20 5.975 5.675 5.30 37.00 34.00	% Yrly Change 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Steel scrap, #1 heavy, del. Chicago, gross ton	32.00 .26 .25 .326 .245	32.00 .26 .25 .326 .245	32.00 .247 .218 .313 .26	+14.7
Lead, common, N.Y., lb	.12 .74 .74 .992 .13	.12 .74 .74 .989 .13	.115 .74 .74 1.029	0
FUELS† Fuel oil #6 or Bunker C, Gulf, bbl Fuel oil #6 or Bunker C, N.Y., barge, bbl	2.10 2.47 2.15 .035	2.10 2.47 2.15 .04	2.00 2.37 2.15 .045	$\begin{array}{c} + 5.0 \\ + 4.2 \\ 0 \\ -22.2 \end{array}$
Gasoline, 91 oct. reg., Chicago, tank car, gal	.115 .108 .09 .088	.115 .108 .09 .088	.12 .117 .091 .13	- 4.: - 7.: - 1.: -32.:
CHEMICALS  Ammonia, anhydros, refrigeration, tanks, ton  Benzene, petroleum, tanks, Houston, gal  Caustic soda, 76% solid, drums, carlots, cwt  Coconut oil, inedible, crude, tanks, N.Y. lb	90.50 .34 4.80 .165 .293	90.50 .34 4.80 .175 .293	90.50 .31 4.80 .21 .278	+ 9.7 0 -21.4 + 5.4
Linseed oil, raw, in drums, carlots, lb.  Phthalic anhydride, tanks, lb.  Polyethylene resin, high pressure molding, carlots, lb.  Rosin, W.G. grade, carlots, fob N.Y. cwt.  Shellac, T.N., N.Y. lb.	.166 .165 .325 14.00 .31	.166 .165 .325 14.00 .31	.16 .165 .35 9.85 .30	+ 3.1 0 - 7.1 + 42.1 + 3.1
Soda ash, 58%, light, carlots, cwt. Sulfur, crude, bulk, long ton. Sulfuric acid 66° commercial, tanks, ton. Tallow, inedible, fancy, tank cars, N.Y. lb. Titanium dioxide, anatase, reg. carlots, lb.	1.55 23.50 22.35 .063 .255	1.55 23.50 22.35 .063 .255	1.55 23.50 22.35 .074 .255	0 0 0 -14.9
PAPER Book paper, A grade, Eng. finish, Untrimmed, carlots, cwt.	17.75	17.75	17.00	+ 4.4
Bond paper, #1 sulfite, water marked 20 lb, car. lots, cwt.  Chipboard, del. N.Y., carlots, ton	25.20 100.00 9.25 6.30 20.00	25.20 100.00 9.25 6.30 20.00	24.20 95.00 9.00 6.40 21.00	+ 4.1 + 5.3 + 2.3 - 1.6 - 4.8
BUILDING MATERIALS: Cement, Portland, bulk carlots, fob New Orleans, bbl Cement, Portland, bulk carlots, fob N.Y., bbl Southern pine, 2x4, s4s, trucklots, fob N.Y., mftbm Douglas fir, 2x4, s4s, carlots, fob Chicago, mftbm Douglas fir, 2x4, s4s, carlots, fob Toronto, mftbm	3.65 4.18 124.00 139.00 105.00	3.65 4.18 124.00 139.00 105.00	3.65 4.25 126.00 141.00 120.00	0 - 1.6 - 1.6 - 1.4 - 12.5
EXTILES  Burlap, 10 oz. 40", N.Y., yd  Cotton middling, 1", N.Y., lb.  Printcloth, 39", 80x80, N.Y., spot, yd.  Rayon twill, 40½", 92x62, N.Y., yd.  Vool tops, N.Y., lb.	.117 .341 .205 .235	.118 .341 .205 .235	.10 .361 .187 .22 1.58	+17.5 - 5.5 + 9.6 + 6.1 - 7.6
HIDES AND RUBBER Hides, cow, light native, packers, Chicago, lb Rubber, #1 std ribbed smoked sheets, N.Y., lb	.195 .405	.225	.295	-33.5

This Week's-

# **Price Perspective**

**MAY 2-8** 

READ BETWEEN THE LINES, and you can find a lot of optimistic purchasing news in McGraw-Hill's latest capital spending survey.

• Productivity—The rising trend toward modernization (\$2 out of every \$3 will go for this purpose) indicates suppliers are striving hard to reduce labor costs via increased production efficiency.

• Price—The survey results reveal a triple-barreled anti-inflationary effect in the making. First, rising productivity will relieve cost pressure. Secondly, increased capacity (4% a year in 1961-63) means that supplies will remain plentiful, that competition will remain keen.

Finally, there's new product development. The expected influx of new products will intensify inter-industry competition, make a lot of suppliers think twice before posting increases.

• General business—The sharp 16% outlay boost expected for this year (26% in the manufacturing area) can't be underestimated. It's bound to give the entire economy (not just equipment industries) a shot in the arm.

PROJECTED CAPACITY BOOSTS, at first glance, might be questioned. For they seem to conflict with the survey's finding that manufacturers are now operating at only about 85% of capacity—9% below the preferred rate of 94%.

Why increase capacity under these conditions? Part of the answer, of course, lies in expected sales increases.

But an even bigger part lies in the need to increase efficiency. Modernization is a "must" in today's competitive, high-labor-cost markets.

And any firm that installs new, more efficient, equipment almost always increases capacity at the same time. For much of the savings from modernization derive from the fact that new machines can turn out more units per hour than the old ones.

This automatically results in an increase in capacity.

ONE BIG QUESTION: How will demand stack up against anticipated capacity increases—now estimated at 4% annually over the next few years? Putting this another way—will sales and production rises match this greater capacity to produce?

Based on past experience, a pretty close match is indicated. A chart on postwar production trends, for example, shows an average 3¾% rate of growth in the 1947-1960 period (see chart, page 9).

It indicates little change in the production-capacity relationship—thus manufacturers should continue to operate close to current rates (85% of capacity). It means—short of war or other catastrophes—the current ample supply outlook should continue into 1961 and 1962.

AS FOR THE GENERAL ECONOMIC EFFECT, the new peak capital outlays can't help but keep business on an even keel.

outlays can't help but keep business on an even keel.

Again, postwar history supplies the proof. The table below shows changes in capital spending and general business conditions.

Capital	Spending	(YrYr. Change)	<b>Business Conditions (YrYr. Change)</b>
	1954	- 5%	- 7%
	1955	+ 7%	+13%
	1956	+22%	+ 3%
	1957	+ 5%	+ 1%
	1958	-17%	- 7%
	1959	+ 7%	+13%

Note the correlation. A rise or fall in capital spending always brings about a similar change in business. The current 16% spending boost (for 1960) should be enough to keep business in the "plus" column again.

# Despite Slow Starts and Competition

tion figures.

Philadelphia—"We need the business, but we're not going to cut prices to get it!"

That's how a leading Eastern tion figures."

Lucky to meet last year's production. It looks like we'll fall some 1% to 2% behind 1959 production figures."

producer summed up the current price outlook for cement last week as the building season got into full swing.

Other industry leaders agreed cement prices would remain firm throughout 1960 and that rumors of an impending price drop were "unfounded." These reports had been based on:

· Slow building starts during the first quarter due to bad weather.

• Increased foreign competition which last year glutted the New England market with more than 2-million barrels of cement from abroad.

• Reduced earnings reports by Lehigh Portland Cement Co., leading Philadelphia producer, and other big firms.

Despite reduced earnings, Lehigh official stated, "We now anticipating a year that will equal 1959 production." He said the company's disappointment lay in the fact that sales have not measured up to first-of-the-year "boom predictions

A leading New England cement company agreed: "We had been anticipating a 25% gain over last year. Now, however, we'll be

### Pennsylvania Initiates Fight Against Increase In Wholesale Gas Rates

Harrisburg, Pa.—Pennsylvania's Public Utility Commission has announced an unprecedented move to "keep natural gas rates down" by fighting proposed wholesale rate boosts before the Federal Tax Power Commission.

The state regulatory agency disclosed two steps it is taking to oppose a recent \$26-million in-crease by the Tennessee Gas Transmission Co.:

(1) It will hire a top Washington consulting engineering firm for "full and active participation before the FPC in the Tennessee

(2) It has invited Pennsyl-(2) It has invited rennsylvania gas companies, representatives of cities affected, and other interested parties to a May 5 conference in Harrisburg "to draft cooperative plans on procedure and ways to meet necessary legal and technical assistance costs." and technical assistance costs.

Increasing wholesale cost of gas has forced Pennsylvania companies to hike their rates, and the spiral is continuing, the PUC

The state agency wants to look into the producer cost paid by Tennessee at Houston, Texas among other factors in pipe line

### L.A. Sets Week for P.A.

Los Angeles — Los Angeles County has designated the week of May 22 to 28 "Purchasing Agents' Week" in honor of the National Association of Purchas-

ing Agents annual convention.
The designation came as result of a resolution to the County Board of Supervisors by Burton W. Chace, chairman of the Purchasing and Stores Com-

Cement Producers Reject Price Cut Prices of Brass Sheet Maintain Steady Level

New York—Brass sheet prices have been holding steady at levels which have resisted the cost-cutting pressures that hit certain copper sheet products two weeks ago. As of mid-way through last week brass tags remained in the Purchasing Week stated that cutting pressures that hit certain copper sheet products two weeks ago. As of mid-way through last week brass tags remained in the 50.57¢/lb. (yellow) to 57.23¢ He denied, however, that the industry would try to improve business by chopping prices. "If anything, we need a price inanything, we need a price increase. Foreign competition, however, has made this out of the question." Portland cement

(gilding metal) range.

A PURCHASING WEEK story which indicated the recent copper

PURCHASING WEEK, stated that "purchasing agents, reading only the headline, are already asking a number of brass sheet and strip (p. 1, Apr. 28) carried a headline producers about the new prices which do not exist.

### **Lumber Exchange**

New York—A proposal to establish a commodity exchange in lumber has stirred up growing interest throughout the industry. the question." Portland cement prices are currently being quoted at \$3.65/barrel on bulk carlots intended in the story which also mention of changes in price on brass sheet... There is mention for New Orleans and \$4.18, fob carried comment by copper industry sources on the possibility of a 7¢ price cut for roofing terial.

# Wherever your customers **buy MACOMA**



# Its performance and name

### are the same around the world

### Other Outstanding Shell Industrial Lubricants

Shell Tellus Olis—for hydraulic systems

Shell Alvania Grease—multi-purpose in-dustrial grease

Shell Turbo Oils—for utility, industrial and marine turbines

Shell Rimula Oils-for heavy-duty diesel

Shell Telene R Oll 40—anti-wear crank-case oil for diesel locomotives Shell Dromus Oils—soluble cutting oils for high-production metalworking

Shell Volute Oils—for high-speed quenching with maximum stability

Shell Macoma Oils are available world-wide . . . assurance that your customers abroad will get the same performance from your equipment that your domestic customers rely upon.

Macoma® Oils are premium quality, fortified extreme pressure industrial gear oils. They provide superior high-load-carrying capacity and are particularly effective where overloading, severe shock-loading or general heavy-duty conditions exist.

Macoma Oils have these added built-in benefits: excellent resistance to oxidation, great adhesiveness, rapid separation from water. They are non-corrosive, non-foaming and have high stability in storage.

For more information, write Shell Oil Company, 50 West 50th. Street, New York 20, New York, or 100 Bush Street, San Francisco 6, California. In Canada: Shell Oil Company of Canada, Limited, 505 University Avenue, Toronto 2, Ontario.

### SHELL MACOMA OIL

the extreme pressure industrial gear lubricant



(Continued from page 1) theipated by these same businessmen as late as last fall.

It indicates that-despite current leveling off in productionbusinessmen are growing more, not less, optimistic about the fu-

The new estimate is also above the 14% increase predicted by the Commerce Department only last month.

Here are some of the other highlights of the McGraw-Hill

• Who's buying—Biggest gain over 1959 (26%) is centered in manufacturing—with metal and machinery firms among the industry leaders. But every industry sees gains for the year.

• 1961-63 outlook—The aver-

age level of spending already planned for 1961-1963 is higher than the amount spent in 1959. These are preliminary plans—and incomplete in many cases. Experience shows that business men generally underestimate their capital expenditures for periods longer than one year ahead.

· Sales anticipations-Manufacturing companies expect sales to increase 8% this year and an additional 17% during the 3-year period 1961-1963.

 Productivity—All signs point to a continuing rise in production efficiency. For example, close to \$10-billion or about two-thirds of this year's expenditures planned by manufacturing firms is for modernization. Only one third will go for expansion.

• Current capacity—Manufacturing companies were operating at an average rate of 85% of capacity at the end of 1959. This is 9% below the rate (94%) they say they would prefer to operate

• Future capacity-In spite of the current overcapacity, manufacturing firms are planning a modest 5% increase in capacity this year-and they plan to increase capacity at a rate of about 4% per year in the next 3 years. Reasons: Expected higher sales and the need for modernization.

• Research—Research and development spending is expected to reach \$9.5-billion this year and \$10.7-billion by 1963—6% and 12% respectively above '59

• New products-The continuing emphasis on research and development will result, of course, in a rash of new products. Every industry in the non-manufacturing area has increased its spending plans for 1960 since

Steel ingot, thous tons

Autos, units

Trucks, units

Thus, by 1963 manufacturers expect 12% of their sales to be in new products—products not made in 1959.

 Depreciation - Depreciation allowances will rise to nearly \$25billion by 1963—up 18% over '59. The rise will provide a strong prop for a high level of capital investment.

For those interests over the strong property of the strong pr

For those interested in gaging the improvement, the McGraw-Hill survey has been made directly comparable to government figures. In the past capital ex-penditures were not comparable with the official government fig-ures because of differences in industry classifications. Here's such vear-to-year comparison for key industries:

#### MANUFACTURING PLANS

Among the manufacturing industries, the auto group shows the biggest gain in 1960 with spending plans up 66%. But the other industries in metalworking—ma-chinery, electrical machinery, transportation equipment—also show substantial gains this year. The steel industry is planning

to spend \$1.6-billion this year and more than \$1.5-billion in 1961—very near the record 1961—very near the record amount spent in 1957. Nonfermanufacturers indicate spending plans of \$369-million this yearand approximately the

same level over the next 3 years.
The chemical process industries, as a group, indicate con-siderably more long-range sta-bility in their plans than the metalworking or primary metals groups. The chemical industry, which has spent over a billion

### WHAT IT MEANS

PURCHASING WEEK'S chart story on pages 14-15 in-terprets the survey—in terms what it means to purchasing. Here, in simple graphic terms, is what the next year or so holds in store for-machinery buying, productivity, prices, supplies, new products. productivity,

dollars every year in the postwar period, already has plans to spend an average of \$1.7-billion in each of the next 4 years.

For details on other industries see table on page 14.

### NON-MANUFACTURING

now plan to spend a record \$6.2billion this year—only a few mil-lion dollars less than their 1957 peak. To meet growing power needs, electric utilities' planned expenditures remain throughout 1961-1963.

A sharp rise in expected de-liveries of jet airliners in 1960 will show up in the spending of "other transportation" this year. And, since most of the aircraft deliveries will be completed this year, there will be a substantial decline in each of the succeed-

ing years.
The mining companies, which account for a relatively small part of the non-manufacturing total, show an up-and-down pattern in

plans beyond this year.
Railroads indicate a 16% increase in expenditures 1960. Although there will be some fluctuation in expenditures beyond this year, this survey indicates plans of close to a billion dollars in spending in all the years reported.

#### GOAL IS MODERNIZATION

Manufacturing companies are concentrating on replacement and modernization in an effort to increase productivity and reduce costs. This year, industry plans to devote 65% of its total spending for replacement and modernization and only 35% for expansion.

These are almost the same proportions devoted to this purpose 1959. However, total spending by manufacturers in 1959 was only \$11-billion com-pared with \$15.2-billion this year.

Thus, nearly \$4-million more will be spent for modernization this year. Only the chemical industry expects to spend a larger proportion of its investment on expansion than on modernization of its facilities.

### CAPACITY WILL RISE

With the emphasis on modernization, manufacturers are planning to increase capacity by only 5% this year. With the exception of 1958, this is the smallest planned increase in the past 10

Manufacturing companies plan to add to capacity at a rate of about 4% per year over the next three years. These smaller additions to capacity are a reflection of operating rates that are below

the preferred rates.
At the end of 1959 manufacturers, on the average, were operating at 85% of capacity. This is 9% below the rate they indicated they preferred to operate.

Manufacturing companies now would prefer to operate at 94% of capacity, compared with 90% as revealed in the McGraw-Hill survey of April 1957, the last time this question was asked. With the exception of the paper industry, every industry now in-dicates a higher preferred rate.

### RESEARCH AND NEW PRODUCTS

Industry is increasing its research programs in an effort to increase productivity, cut costs, and develop new products and processes. Every industry—with the exception of the aircraft industry, which obtains a large proportion of its funds for research and equipment will be for from the federal government—ties to make new products.

This Week's.

# Washington **Perspective**

**MAY 2-8** 

The Administration's big drive to expand exports is accompanied by much ballyhoo, little tangible results.

The campaign fails to excite U. S. companies noticeably. The Commerce Dept. contends more firms have shown interest in exports since the campaign began. But it is conceded there is still a long way to go.

Critics charge the Administration leans heavily on exhorting

business to export but provides few incentives.

Major feature of the Administration program is to provide short-term insurance to businesses against political risks, such as losses due to a change in government or from monetary devalua-

Some exporters complain this has only minor value, for exports to unstable and underdeveloped countries. They say it does little to open markets in the big European countries and others with advanced economies.

The Commerce Dept. plans to step up its publicity campaign in the months ahead. But Democrats and many Republicans are openly dubious about its success.

Big drive centers in Congress to expand the Administration program. The aim: to extend insurance to business against all commercial losses, such as non-payment of debt by a foreign

Vice Pres. Nixon's hand is seen behind some of these moves. A principal exponent of expanded insurance is Californian Henry Kearns, former Undersecy. of Commerce for foreign trade and now active in Nixon's Presidential campaign.

Kearns told Congress last week that the Administration program will not do the job. He appealed for broader insurance similar to that provided by European countries for their business-

Chairman Warren Magnuson (D-Wash.) of the Senate Commerce Committee also lines up in favor of such insurance

Additional recommendations: Chemical producers and other firms call for more aggressive action by the Administration to try to beat down tariff walls in other nations.

### A "Buy American Act" type of regulation is advanced to help smaller manufacturers selling to government.

The Small Business Administration has set up a tentative regulation to govern federal set-asides and other contract awards to small companies.

The ruling states that companies will be barred from preferential treatment under the Small Business Act if the products they sell to government consist of more than 50% of foreignmade materials.

Interested firms have 30 days to furnish comments to SBA on the rulings before they go into effect.

### Labor Secy. Mitchell tries to line up railroad unions behind the Administration's proposal to eliminate subsidies to other forms of transportation.

One indirect result of such a proposal would be to drive a wedge into Teamster boss James Hoffa's dream of a grand alliance of rail, truck, airline, and shipping unions under one organization. The non-rail transport unions would be certain to resist any such innovation.

Mitchell appealed to rail labor-management to press for a "fundamental overhauling" of the Interstate Commerce Commission to allow for greater freedom of rate-making.

Mitchell also urged that all transport subsidies be abolished and user taxes be instituted. This has long been an Administration recommendation, but Congress has snubbed the idea repeatedly, and is certain to do so again this year.

expects to spend more for re-

search and development this year.
A significant share of manufacturers' research and development programs is for new prod-ucts. Manufacturing companies estimate that 12% of their 1963 sales will be accounted for by new products. (New products are defined as "products not made in 1959 or products sufficiently changed to be reasonably considered as new products".

And close to one-third of the reporting companies indicated that a significant share of their 1960 expenditures for new plants and equipment will be for facili-

The largest increase in new products is expected by the trans-portation equipment industry, largely aircraft. With the exception of the auto industry, the metalworking industries expect new products will account for at least 15% of 1963 sales.

The chemical industry expects 14% of its 1963 sales to be in new products and other figures range from 4% in the petroleum industry to 25% in the machin-

ery industry.

This will mean the introduction not only of many new products, but of completely new processes during the next 4 years to

Gasoline, thous bbl Petroleum refineries operating rate, % Container board, tons Boxboard, tons Paper operating rate, % Lumber, thous of board ft Bituminous coal, daily aver thous tons

Crude runs, thous bbl, daily aver

Distillate fuel oil, thous bbl

Residual fuel oil, thous bbl

Electric power, million kilowatt hours Eng const awards, mil \$ Eng News-Rec

**Weekly Production Records** 

2.261

145,220

25,733

12,678

7,967

6,164

28,246 28,472 81.6 80.9 79.7 151,890 167,502 88,578 103,323 99,057 97.0 95.8 258,425 1,463 255,666 1,337 260,035 1,385\* 493.1 758.3 411.0

Ago

2.238

135,402\*

25,681\*

7,898

6,761

Year

Ago

7,705

6,401

133,987

# Newly Incorporated City Is Buying Headache

into a job as top P.A. for an established city is tough enough. But taking over the purchasing department of a newly incorporated city of 22,000—that's a king-sized headache.

However, Carl W. Kreugel, purchasing agent for the City of Richland, did it.

### Became Independent in 1959

Richland, headquarters of the Atomic Energy Commission's Hanford Works, became an independent, incorporated city early in 1959, and Kreugel took over the job of supervising the development of the town's cen-tralized purchasing department last June.

The city had been adminis-tered by the AFC through its community contractor, General Electric Co., which also is con-tractor for the Hanford Works. Gradually, however, the various municipal and utility operations,

### **Barred Firms May** Appeal in N. Y.

Albany-Any firm disqualified from doing business with a city or community in New York state because a member refused to testify or waive immunity before a grand jury, now can appeal the ruling under a bill signed by Governor Rockefeller. The legislation amends the dis-

qualification law passed in 1959, which grew out of the Erie County grand jury investigation into street-paving contracts and alleged payoffs to city officials. The former law disqualified

firms whose members were balky witnesses from entering into contracts with the city for a period

of five years.

Under the amendment, disqualified firms now have the right to appeal for an order "discontinuing the disqualification."



WINS AWARD: Associate Editor Robert 5. Reichard's post-strike analysis, "Steel Hangover: Who's Aching and How Long," received a merit award in the annual Jesse H. Neal editorial competition sponsored by Associ-ated Business Publications. Ap-pearing in the Nov. 30, 1959, issue of Purchasing Week, the article detailed the effects of the 116-day steel strike and assessed, industry by industry, the prob-able course of production come-Purchasing Week's Price and Trends Editor based his award-winning report on returns from a questionnaire sent to more than 1,000 steel-buying purchasing executives.

Wash. — Stepping such as water, sewers, electricity, top P.A. for an police, and fire departments, were turned over to the new city government.

Kreugel, former community clerk in GE's community divi-sion, had to adjust and expand former community his department's activities to meet the needs of the new departments as they were added to the city government.

Richland is now working on

pense of \$3.8-million, including \$1.4-million for the electrical operation.

Another problem Kreugel had to face as Richland's first P.A. was transportation routes from suppliers. When the city was unsuppliers. der federal control, the AEC only leased property to necessary re-tail and service businesses.

Now there is a dearth of in-Richland is now working on its first complete annual budget, which will include funds for all the various utility functions. The city is planning a total 1960 ex-



CITY P.A. Carl W. Kreugel faced some major headaches when he took over buying job for a newly incorporated city; population: 22,000.



FORMED STEEL TUBE INSTITUTE, INC. 1604 Hanna Building

The Carponter Steel Co., Alloy Tube Div. • Clayton Mark & Co. • Damascus Tube Co. • Jones & Laughlin Steel Corp., Ohio Seamless Tube Div. • Revere Copper and ts. Inc. • Southeastern Metals Co. • The Standard Tube Co. • Superior Tube Co. • Trent Tube Co., Subs. Crucible Tube & Mark Decident Co.

# **Industry News in Brief**

Harvey Aluminum Expands
Torrance, Calif.—Harvey Aluminum Inc. is enlarging its aluminum reduction capacity 25% with the addition of new facilities at its plant at The Dalles, Ore.

New fabricating facilities consisting of billet casting, wire rod and related production equipment also will be built at The Dalles site. A merchant bar mill and conduit facilities will be constructed at Torrance.

#### **New Ceramics Plant**

Chattanooga—American Lava Corp will build a technical ceramics plant at Laurens, S. C. Production at the plant is ex-

pected to begin early next year.

The company, a wholly owned subsidiary of Minnesota Mining and Manufacturing Co., St. Paul, produces electrical insulators, capacitors and components for the electronics industry.

### **New Plant Underway**

Russellville, Ky.—Emerson Electric Manufacturing Co. of St. Louis is constructing a \$2-mil-lion plant here for the manufac-ture of electric motors, electrical equipment, and electronic components.

### **Can Plant Opening**

Dallas—A new can making plant will be added to the Great Southwest Industrial District here. R. C. Can Co. will open a new fiber can plant in Arlington next month. Fully equipped, the plant represents a \$750,000 investment.

### On Stream

Midland, Mich.—Kaiser Re-fractories & Chemicals' new \$3million periclase plant is now on stream. The plant has a capacity to produce 45,000 tons of periclase and refractory grade magnesias annually. It uses magnesium hydroxide furnished by Dow Chemical Co. Periclase is used in the manufacture of refractory brick and mixes.

### Stauffer Chemical Depot

Elrama, Pa.—Construction has started of a carbon bisulphide storage and distribution depot by Stauffer Chemical Co. Scheduled for completion in June, the project will include 22 tanks.

The chemical will be shipped by barge from Stauffer's plant in Le Moyne, Ala. to Elrama. The company will service Elrama with two 1,000-ton capacity barges

### Paper Firm Modernizes

Hoquiam, Wash.—Grays Harbor Paper Co. will produce 250 tons of fine paper daily when expansion of present facilities is completed next year. The firm is owned by Rayonier, Inc., and Hammermill Co. Expansion includes the installation of a new 180-in. Beloit fine paper machine 180-in. Beloit fine paper machine and modernization of existing plant facilities.

### Litton Industries Buys

Beverly Hills, Calif.—Litton Industries has acquired Servomechanism (Canada) Ltd. in a cash deal. The firm, formerly a subsidiary of Servomechanisms, Inc. of Los Angeles, is engaged in development and productive of development and production of electronic equipment.

is processing steel on new equip-ment which it claims is an improvement over former methods using torch burning or slot punch-ing. Heart of the new operation is a rotary beam splitter which will provide a complete range of T-shaped structural steel sections.

### Name Changed

Pittsburgh—Pittsburgh Sanitary Chemical Co. is the new Valley Forge Space Technology metal refining.

name of the Pittsburgh Chemical Co. The firm makes and markets chemically based liquids used to clean and disinfect plumbing

### **GE Plans Space Center**

Philadelphia — Construction has started on General Electric Co.'s \$14-million space technology center to be built in Upper Merion Township, near the Pennsylvania Turnpike and Schuylkill Expressway.

Center, will be located about 17 Acquires Plant miles west of here. GE's Missile & Space Vehicle Department, now in Philadelphia, will occupy the 130-acre site.

### **Output to Double**

Memphis—Aluminum Foils. Inc. will more than double its output of high purity foil when its new plant at Jackson is completed next month.

The super purity aluminum produced by the company is sold under the trademark Raffinal. It is used in electrolytic capacitors, chemical processing in catalysts for high octane gasoline, and in

Baltimore—Ellicott Machine Corp. has acquired the plant of Charles T. Brandt, Inc. located at Bush and Ridgely, here. The metal working plant will be operated by Ellicott-Brandt, Inc. an Ellicott subsidiary.

### Merger Completed

Jersey City—Onyx Oil & Chemical Co. has merged with the Onyx Chemical Corp. and will be know under the latter name. Onyx Chemical Corp. produces quaternary ammonium germicides, and textile finishing compounds.



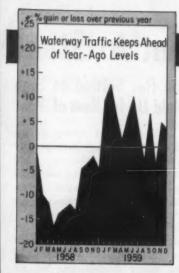
Bearing life increased at least two and one-half times with

# Gains 36% more production, saves \$5,000 a week, by

# MAKES THIN

"We've discovered what important savings can be made by simply changing from one grease to another," says Henry J. Werner, Maintenance Superintendent, Green River Steel Corporation, Owensboro, Kentucky. "We were having trouble with the bearings on our soaking pit covers. The grease kept melting out. This meant shutting down the pits, at a downtime cost of \$650 an hour. When they're down, we're not pressing steel."

Gulf engineers recommended Gulfcrown Grease E.P., a multi-purpose lithium base grease formulated for unusually heavy bearing loads and high temperatures. "Now," Mr. Werner says, "we have not changed a bearing in the ten weeks the new grease has been in use. We used to replace each bearing every four weeks. Downtime has been cut from 12 hours a week to 4, a weekly savings of \$5,000. This has resulted in an increase of our average



# RANSPORTATION MEM

WEST COAST REVIVAL: Coastal shipping service soon may be revived on the West Coast. Olympic-Griffiths Lines is now seriously studying plans to launch two container ships that could handle cargo in 20-ft. truck-trailer vans.

Each vessel would carry 75 vans and make round trips on a weekly basis from Seattle to San Francisco and Los Angeles, providing shippers in those areas with complete door-to-door fishyback service. The line also is considering the possibility of a third ship making calls at Portland.

MORE FISHYBACK: The Bull Lines, headquartered in New York, is now officially in the truck-trailer-on-boat business. It launched the second of its C-2 cargo ships last week on twiceweekly sailings between New York and Puerto Rico, carrying 22 demountable 35-ft. trailers.

To meet the new competition, Sea-Land Service, Inc., formerly Pan-Atlantic Steamship Corp., New York, has doubled its weekly trailership service to Puerto Rico. The faster schedule eliminates a northbound call at Jacksonville, Fla.

FASTER EXPRESS BY AIR: Shippers in areas with no scheduled airline service should take a look at a new cargo pact for coordinated airfreight-surface express services drawn up be-tween United Air Lines and Railway Express Agency.

The new agreement provides for a single receipt to shippers covering movement by air freight between cities in United's system and surface express between these points and non-airport communities served by REA. The pact becomes effective June 1.

Shipments may be originated as air freight and delivered to final destinations as surface express, or in reverse order. Charges,

either prepaid or collect, will be a combination of the applicable air and surface rates of the two carriers.



Gulf Harmony oil protects against rust and foam in hydraulic systems of Green River's forging presses.



Manipulator, lubricated with Gulfcrown Grease E.P., places billet in forging press.



Longer gear and bearing life on Green River's blooming mill, intermediate and finishing stands is assured by the use of Gulf E.P. lubricants.



Left to right, Marshall Ringo, Gulf Sales Representative, Thomas J. Bartlett, Jr., Gulf Owensboro Distributor, Nelson C. Walker, Executive Assistant to the President, Green River Steel Corp., and George Carney, Gulf District Manager.

switch to Gulfcrown® Grease E.P.

# BETTER!

production of 36%, or 702 tons a week."

Based on this experience, Green River plans to standrdize on Gulfcrown Grease E.P. for grease applications. To protect against rust and foam in hydraulic systems hroughout the mill, Gulf Harmony® oil is used.

Perhaps a Gulf Sales Engineer can help you improve our lubricating practice, and help you make sizeable lollar savings. Just call the nearest Gulf office.

**GULF OIL CORPORATION** 

Department DM, Gulf Building Pittsburgh 30, Pennsylvania



NAME CHANGES MEAN SAVINGS: A special freight committee of the Association of Electronic Distributors, Los Angeles, has proven again that there's more in a name than meets the eye—especially in transportation.

The committee has drawn up a rate chart to help members eliminate overcharges that result climinate overcharges that result from material being shipped from various points under the wrong name category. EXAMPLE: If an "amplifier" is shipped out of New York City as an "amplifier," the charge is \$11.04 cwt. If shipped as a "talking machine part" the charge is only \$9.13 cwt, a saving of \$1.91 cwt.

GO BY BUS: Greyhound is GO BY BUS: Greyhound is launching an intensified promotional campaign to acquaint purchasing and traffic people with its package freight program. The bus line says it has always had the "right" and the space to handle package freight and has been doing it for some time "without blowing the bugles."

Now Greyhound is pushing for yolume, and publicizing its same-

volume, and publicizing its same-day service (within 700 miles) plus the economies of shipping small (24x24x48 in. is top size, 70 lb. top weight) packages via

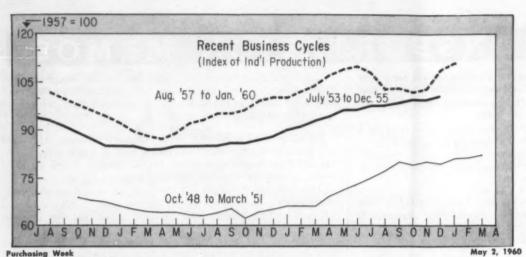
**NEW PARCEL POST SIZES:** Postmaster General Summerfield has suggested establishment of the following maximum size and weight limits on parcel post effec-

tive July 1:

• For parcels moving between first class post offices—40 lb. and not to exceed 100 in. in length and girth combined with a maximum length of 34 in.

● For special mailings set forth in the present law—70 lb. and not to exceed 100 in. in length and girth combined.

WHISTLESTOPS: Eastern railroads plan to increase mini-mum charges on less-than-carload shipments from \$3.06 to \$5.00 per shipment. Tariffs covering the increases are ex-Tariffs pected to be made on a national basis if other territory roads con-cur. . . . At the same time, the cur. . . . At the same time, the ICC has turned down an Eastern railroad petition to reconsider an original request for increases on all first class rates on shipments under 5,000 lb. by 29¢ cwt. regardless of distance. . . . The Chesapeake and Ohio R.R. reports encouraging response to its all-piggyback through train service between Buffalo and Chicago, initiated recently.



# All Signs Point to Stable

### Analysis Indicates Nation Has Settled on High Plateau Which Should Hold Up for Rest of Year

What phase of the business cycle are we in?

U.S. business curve.

Most economists had been ure of cyclical fluctuations, hit placing the peaking out point of 111 (1957 = 100, see charts). the current cycle at any time from late second quarter of 1960 to early 1961.

But there are strong indications that we may have already All signs point to a period of passed the peak—that we reached stability—a rare phase in the it in January when industrial production, the traditional meas-

And careful analysis indicates we've settled on a high plateau of industrial activity. There will be minor fluctuations, but we should stay up there for the rest of the year and perhaps even

### LOCATING THE PEAK

The signs that point to our having passed the peak of the current cycle are:

• Comparison with preceding cycles. The chart at the left shows that the two previous cycles-July, 1953 to December, 1955, and October, 1948 to March 1951—each stretched 30 months from old high to new high.

Our current business cycle was 30 months old on January, 1960. Since then industrial production has slipped slightly in both February and March, and some further decline is expected for April.

• Steel operating rate. Steel production is the bellwether of total industrial production. The industry, which began the year operating at 96% of capacity, has dropped to 80%-and some experts estimate it will hit 70% in May before the decline is stopped.

The reason: Consumption of finished steel is running at 74% of the industry's ability to turn it out.

• Inventories and order backlogs: The inventory buildup, which had boosted steel consumption following the steel strike, is just about completed. Cessation of inventory buildup goes hand in hand with a dropoff in new orders-and reduced backlogs-not only for steel, but also for metalworking machinery, general-purpose industrial machinery, and other important industries.

It's very likely that history will peg the latest business cycle as extending from August, 1957 to January, 1960.

### LONG RUN PROPS

A number of factors, however both long and short run-point to continued prosperity, with industrial production close to the recent peak.

The long run factors involve:

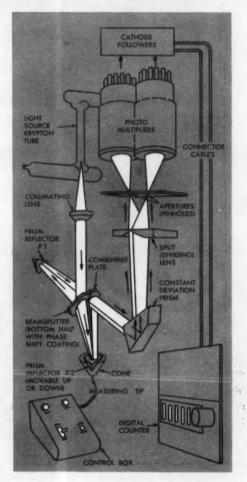
• The changed nature of the postwar business cycle.

# There S a Difference in STAINLESS STEEL ST

... when "tonnage is produced on a laboratory basis" -

At Wallingford, stainless steel strip having close tolerance specifications is thoroughly cleaned before final inspection because contaminants have weight; and non-contact gages measure all weight within the throat of the measuring head. A sample is then taken from the coil, delivered to a temperature controlled room and measured with a Fringecount Micrometer - interferometer, control box and counter - to compare the thickness of the sample to the wave length of a krypton light source.

As the diagram at right shows, the movement of the measuring tip modulates the krypton light source and produces fringes which are detected and counted. This reading is then converted to thickness of the test piece. After measuring, the sample returns to the line; the gaging equipment is zeroed against the known thickness, and processing starts up again. By taking a sample from each coil, it is almost impossible to have an error caused by variation in density between different alloys.



Do your suppliers measure close tolerance stainless steel strip with such exactitude? Why not purchase your stainless steel strip where tonnage is produced on a laboratory basis?

Facilities for widths up to 27" - thickness down to .001" - extremely close tolerances maintained. Write for new folder on stainless steel strip.

### THE WALLINGFORD Progress in Metals for Over 38 Years

WALLINGFORD, CONN., U.S.A.



COLD ROLLED STRIP: Super Metals, Stainless, Alloy . WELDED TUBES AND PIPE: Super Metals, Stainless, Alloy

# Period Ahead for Business Activity

• The accelerated rate of eco-| and high retail sales prospects: | nomic growth.

Recent business cycles differ greatly from their prewar predecessors.

Most important, the postwar cycles have been much shallower than those of the 1920s and 1930s. Before World War II the 35% if we exclude the Great Depression).

Since the war the fall from crest to trough has averaged on an upward push again. 121/2% (see chart at left).

Another feature of postwar business cycles is that the jump from old high to new high in industrial production is greater than before the war.

Before 1940 new highs averaged 8% above previous highs. Since 1947 the average jump from high to high has been about

Shallower troughs and higher peaks are evidences of an accelerated rate of economic growth. This is borne out by the fact that since 1947 the economic growth line (see chart at right) has worked out to 33/4 % a year, compared to about 31/2 % annual rate of growth between World Wars I and II.

And the growth rate looks to accelerate even more quickly in the 1960s. Some experts claim we can step up industrial production at the rate of 6% a year, if we concentrate on stimulating investment and intensifying research and development throughout industry.

Even if we just want to maintain present levels of employment and hours of work, we have to push up our growth rate to between 4% and 5%. That's the only way we can absorb an annual 1% to 2% increment to a labor force, whose output per man hour is increasing-through technology-at the rate of 3% a year.

Tilting the economic growth line upwards means lesser drops and higher new peaks for future cycles. Breaking this idea down further, we can say that increasing rates of population growth, higher standards of living, and greater stress on new products and techniques are long-run forces that will hold industrial activity at high and rising levels for some time.

### SHORT RUN STABILIZERS

But there are also factors that look to reverse slipping industrial production in the short run.

• Increased capital spending. Expenditures for new plant and equipment are slated for a surge (see page 1), and should provide a real stimulus to durable goods production.

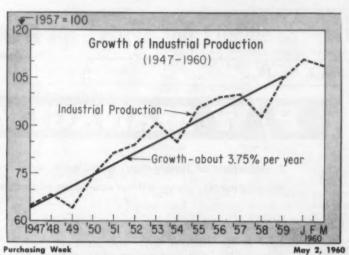
• Moderate steel inventories

Steel inventories are rather lowabout 17-million tons-for current business activity. With retail consumer surveys show that cussales—especially in automobiles tomers are eager to buy. -stepping up briskly, it is likely that steel operating rate will pick up again in a couple months.

Other evidence for this is that ning below the rate of steel consumption. That can't go on too long before new steel orders start

• Personal income and sumer spending: Personal incomes are at record levels and

Add to these factors, seasonal upsurges coming for oil production and construction activitycontractor orders for construcdrops from high to low averaged the new orders for steel are run-tion equipment are rising sharply -and you get a picture of comfortably high levels of industrial production for some time to come.



# The Ludlow Method 2-STRIP CASE SEALING

Faster - Stronger - Costs Less

If you're still sealing cases with staples, wire stitching or 6 strips of plain paper tape, you owe it to yourself to investigate 2-strip sealing with reinforced tape.

If you're now using staples or wire stitching, the Ludlow Method offers you:

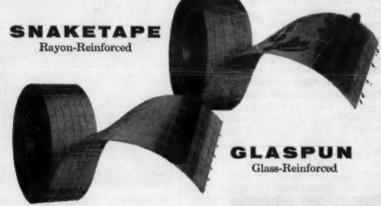
- · Up to 60 more cases sealed per hour.
- Greatly increased case strength and durability.
- Easier opening no scratched contents or hands.
- Closed center seam eliminating infiltration of dust and foreign matter.

If you are now using 6 strips of plain paper tape, the Ludlow Method offers you:

- · Labor savings of 66%.
- Cases that are 200% stronger.
- Neater appearance and water resistance.

Both SNAKETAPE and GLASPUN are approved for shipment on all carriers under U. F. C. Rule 41.

Use the coupon below to get more information.



VPI-Coated Papers • Greaseproof Papers • Waterproof Papers • Poly-Coated Papers • Gummed Tapes • Federal Spec. Papers • Label and Specialty Papers • Plastics



LUDLOW PAPERS . Dept. 164 · Needham Heights, Mass.

Please send me more information on the Ludlow 2-Strip Sealing Method. I am now using 🗆 Staples 🗀 Wire Stitching 🗀 Plain Paper Tape

Name	Position		
Company			
Street			
City	Zone State		

# MANAGEMENT MEMOS

A collection of timely tips, quotations, and inside slants on management and industrial developments, along with a run-down of events and trends of use to the purchasing agent.

### Cloak and Dagger Boys

Beware of the business spy. The stranger who wanders into your purchasing office and casually asks for a set of blueprints may not be

casually asks for a set of blueprints may not be as innocent as he looks. He may, in fact, be a free-lance "information" specialist, who sells business secrets to the highest bidder.

Fortunately, most American businessmen consider this practice unethical. But it exists, nevertheless, as shown by a survey of 200 corporate executives, made by C.I. Associates, Watertown, Mass. Fifty-four of the managers said this limit of the industry and some kind of snooping was practiced in their industry-and some

indicated it was on the rise.

The purchasing office is one of the biggest sources of leaks, the survey reports. The reason: Many of the salesmen and other visitors who come to your purchasing office carry out tidbits of information—which may go straight to the ears of your competitors.

### Report from Ulcer Gulch

"If I wanted to hire an associate, I would hire a man with an ulcer. He would work;" says Dr. H. Marvin Pollard of the Univ. of Michigan. The average ulcer patient is typically younger, intelligent, hard working, and is in the intensely competitive phase of his career. However, he has one failing. According to Dr. Pollard, "He usually has not developed self-confidence. He lacks faith in his own ability."

Pollard's remedy: Slow down, avoid excesses of physical and emotional fatigue. Develop interests outside the office that are relaxing. Don't take yourself seriously. Good prescription for Springtime, isn't it?

### Cool Reminder

If you want to justify the cost of air conditioning, take a look at some productivity figures that the Office of Building Management at the General Service Administration, Washington, has assembled. GSA ran comparisons between two groups of office workers doing similar work. The air-cooled group came up with 9% more productivity, measured in terms of units of paperwork completed.

The report (Technical Bulletin PBR 16) pinpoints four advantages of air conditioning in dollars and confer.

ars and cents:

A substantial increase in productivity.
 A measurable decrease in employee ab-

(3) A slight decrease in clerical errors.
(4) A measurable decrease in employee living sts—laundry, cleaning, make-up, and the like.
The payoff: better morale, more work done.

### **Short Pointer**

A Bright Young Man, looking for a job with a top level firm as a material handling specialist, took aptiude tests at one corporation, and was elated when he was told he ranked "better than 99% on the company's middle management scale on computational ability, administrative skills, and ability to delegate." But the BYM quit in disgust after a few days when he found out how bad middle management was on these scores. Moral: All ratings are relative—but even so, don't forget that you can set ahead faster in an organization that is weak in you can get ahead faster in an organization that is weak in executive skills.

# PURCHASING PARADE

Here are four incidents that should

bolster every P.A.'s ego:

• John A. Pooley, P.A. for Mixer

& Co. (Buffalo), distributors of forest products, has been elevated to the board of directors of the company.

board of directors of the company.
 Earl G. Ward, Vice President of Purchasing for the Ford Motor Co. (Detroit), was named general chairman of the 1960 Torch Drive.
 Newton H. Webb, P.A. for The Cardwell Machine Co. (Richmond) is chairman of the Richmond-Henrico Chapter of the National Foundation.
 Chet F. Ogden, Vice President of

• Chet F. Ogden, Vice President of Purchasing at Detroit Edison Co. was selected for an Industry Founders Committee of 14 who will serve as advisors to a new Applied Management and Technology Center established by Wayne State University.

Comparative notes on golf:

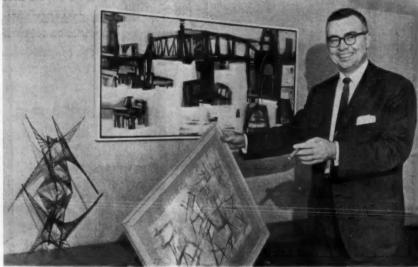
• Al Shackelton, Graphic Arts

Buyer at Cutter Laboratories (Berkeley, Calif.), winner of the Director's Cup in the Men's Championship golf

cup in the Men's Championship golf tournament held late last year at the Contra Costa C. C., scores in the mid-70's on the par 71 links.

• J. F. McMillan, newly appointed Buyer of Automotive Accessories for Firestone Tire & Rubber Co.'s home and auto supply division (Alexandra). and auto supply division (Akron, O.), shoots in the low 90's; hen enjoys settling down with a good book, preferably historical.

Meanwhile, Leo B. Fisher, Director of Purchases at Continental Coffee Co. (Chicago), was the proud winner of a company sweater with a 79 in Continental's last Golf Tournament.



Better start brushing up on your art you may find yourself buying paintings for an executive suite. And if you don't know a cubist from an impressionist, you may soon get the feeling that you yourself are being framed or hung.

Owen Lewis, above, Director of Pur-chases for Piedmont Pub. Co. (Winston-Salem, N. C.), recently was called on to help buy some art work for the brass. But fortunately he had experi-

ence and know-how on his side:
Shortly after he became the new president of the Newspaper Purchasing Agents, he was elected president of Associated Artists of North Carolina. He's also active in the Arts Council

and has headed the Winston-Salem gallery of Fine Arts. He is a frequent speaker and panelist before what he describes as "fraternal, civic—and even women's groups."

Personal glimpses of P.A.'s

as they march by in the news

"I learned early in life that I could do much better talking about art than producing it," he says. On modern art, he has this opinion: "When people say they don't see anything in modern painting, they are tacitly admitting that they don't know what to look for any painting-modern or other-

Here's a P.A. who has a cheery way of talking about his company:

(Continued on page 19)

### **Purchasing Week**







PUBLISHER: Charles S. Mill EDITOR: Edgar A. Grunwald Managing Editor: John M. Roach

William G. Borchert, SENIOR EDITOR Harlow Unger, Domenica Mortati

Robert S. Reichard, SENIOR EDITOR Dan Balaban

roducts:

David Bressen, SENIOR EDITOR Lawrence J. Hoey Management:

Ira P. Schneiderman, William R. Leitch Presentation: Samuel Cummings, Allan C. Hoffman,

James P. Morgan, Gail Gruner

Consulting Editors: George S. Brady, F. Albert Hayes, Robert Kelley

McGraw-Hill Economics Staff
Dexter M. Keezer, DIRECTOR
Alfred Litwak, Douglas Greenwald

McGraw-Hill News Bureaus
John Wilhelm: DIRECTOR
Margaret Ralston: M'NG EDITOR Washington: George B. Bryant, Jr., CHIEF Glen Bayless, Donald O. Loomis, Roy L. Calvin, Arthur L. Moore, Anthony De Leonardis, John C. L. Donaldson

Atlanta: Billy E. Barnes Stewart W. Ramsey Arthur Zimmerman Chicago: Cleveland: Marvin Reed Donald MacDonald Dallas: Detroit: Los Angeles: Kemp Anderson Jenness Keene Ray Bloomberg San Francisco: Seattle: Beirut: Omnic M. Marashian Bonn: Morrie Helitzer John Pearson Caracus: London: John Shinn Mexico City: Peter Weaver Moscow: **Ernest Conine** Paris: Robert E. Farrell Rio de Janeiro Leslie Warren

o: Sol Sanders

Assistant to the Publisher
Raymond W. Barnett Marketing Services Manager E. J. Macaulay Circulation Manager Henry J. Carey Business Manager

L. W. Nelson

rosition and company on subscription orders. Send to address a subscription orders. Send to address shox below.

United States subscription rate for indivite field of the publication, \$6.00 per year oppies 50 cents; foreign \$25 per year, par advance. Printed in U.S.A. Title registered Patent Office. © Copyrighted 1960 McGrawdishing company, inc., all rights reserved.

UNCONDITIONAL GUARANTEE—We aga direct request from paid-up subscripters to York Office, to cancel any subscription if FING WEEK'S editorial service is unsatisfact proportionate subscription price of any copies will be refunded.

SUBSCRIPTIONS: Send subscription can and change of address to Subscription Purchasing Week, 330 West 42nd St., 36, N. Y. Subscribers should notify: Manager promptly of any change giving old as well as new address, ing postal zone number, if any. enclose an address label from a receive publication. Please allow one change to become effective.

Postmaster . . . Please send form 3579 to Purchasing Week 330 W. 42nd St., N. Y. 36, N. Y.

### PURCHASING WEEK ASKS . . .

### When changing vendo s, should the P.A. contact his present supplier and explain the reason for the change?

Question asked by: Chuck Hughes, Purchasing Agent Britt Sliding Door Corp., Houston



Spruce Mills (lumber, building materials), Seattle, Wash.:

"Generally, yes. To maintain satisfactory relationships with suppliers calls for mutual understanding and the Golden Rule was never more applicable than in this situation. Conditions change rapidly and the discarded supplier of today may well be the answer to a supply problem tomorrow. The vendor who understands your problems continues to help work for and with you. Thoughtful consideration of, and explanations to, suppliers at the time of a change (without becoming a price peddler) will lessen the possibility of ill feeling."



### J. L. Burgess, Jr., purchasing & production control manager, Arrow Tool Co., Inc., Wethersfield, Conn.:

"I think my function is more buying than explaining. As far as I'm concerned, if a change is made it should be apparent to the vendor that his sales force is not rendering the expected service. I feel that if I change vendors, the supplier should rick up the hell and ask us why he lost the pick up the ball and ask us why he lost the business; or he should have his sales force find out the reasons why.'



# H. E. Voll, purchasing agent, Evinrude Motors, Div. of Outboard Marine Corp., Milwaukee:

"If it will not disclose confidential information, it is our policy to meet this situation as squarely as possible—especially if the vendor be one of long standing. It has always been our desire to establish and maintain good public relations with our vendors; so if a decision is made to change applies as yearly advance action will allow him. suppliers, any advance notice will allow him to dispose of inventories as well as find other sources for his production. It may be that his services will be required at a later date, and the courtesy ex-tended will pay dividends."



# J. R. Mathis, purchasing agent, Promat Metal Finishing Chemical Div., Poor & Co., Waukegan,

"I object to the if's—and's—but's that P.A.'s use regularly in this column. My answer is an absolute yes! He is my supplier because I depend on him and expect the maximum cooperation. I on him and expect the maximum cooperation. I in turn must reciprocate by keeping him advised. For example, quality control might change specifications and find a better raw material that a present supplier does not handle. This supplier has been stocking the old material and I certainly would not want him sitting there with a warehouse full of material I'll never use again."



## W. R. Bruce, manager of material, Convair Div., General Dynamics Corp., San Diego:

"Our policy is to contact the present supplier and explain the reason for our action—if it is and explain the leason for our action—it is not apparent to him. Where the necessity for the change is related to one or more of the basic elements in procurement—e.g. price, delivery, and quality—the supplier should have an explanation so that he may take remedial action in order that he may compete for future business. If the change is generated by some obscure reason that would appear unjustified unless explained, it would seem especially proper to inform the supplier of the reason for the change."



# W. R. Barton, manager of the material & production control department, Consolidated Vacuum Corp., Rochester, N. Y.

"As a matter of courtesy and good business practice, the P.A. should contact his present supplier and explain the reason for the change. A change in vendors points up the advantages of an adequate vendor performance evaluation system, particularly when a change is caused by performance. It is even more important to notify a vendor of a change when reasons other than poor performance necessitate the change."

### Follow Up: Letters and Comments

### **Basic Materials**

Minneapolis, Minn.
When I see "Burlap, Hides Boost Index" (PW, Apr. 11, '60, p. 2) in bold type on your Industrial Materials Price Barometer, I can't help but wonder how much weight is given to such unfamiliar items in your 17 basic materials. I would also be interested in what the 17 basics

are and how they are weighted.
You, no doubt, explained all this at the start of your publication of this chart, but some of us missed it, or weren't paying

William H. Furst Purchasing Agent Western Oil & Fuel Co.

• Burlap and hides were chosen because it was found that in combina-tion with 15 other commodities it makes for an index sensitive to small swings in the business climate. The other commodities are: copper

scrap, cotton, lead scrap, print cloth (spot nearby), lead (New York, pig),

shellac, tallow, aluminum scrap, rosin, rubber, steel scrap (Chicago), tin, wool tops, zinc, and copper ingot (New York refinery).

These 17 commodities are not weighted because preliminary testing revealed little difference as far as over-all index movement was con-

### **Plastic Containers**

Jackson, Mich.

In a recent issue we noticed a picture captioned "Versatile forms of containers (like these) were on display. . . ." (PW, Apr. 11, '60, "Packaging Show Blossoms With Plastic, Foam, Film," p. 32).

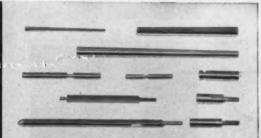
Would you tell us the manufacturer of these plastic, containers.

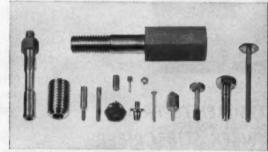
these plastic containers.

Lary Z. Mathany Sales Manager Needs Corp.

• Sheffield Plastics, Inc., Container Div., 500 Salisbury Road, Sheffield, Mass





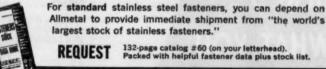






You can look to Allmetal for fine screw machine work in all metals...plus cold heading and hot forging. Complete secondary operations. Prompt production on long or short runs. Intricate shapes, precision tolerances, large, small miniature sizes.

- 30 YEARS OF KNOW-HOW RIGID QUALITY CONTROL
- . SINGLE AND MULTIPLE SPINDLE AUTOMATICS



CREW PRODUCTS COMPANY, INC.

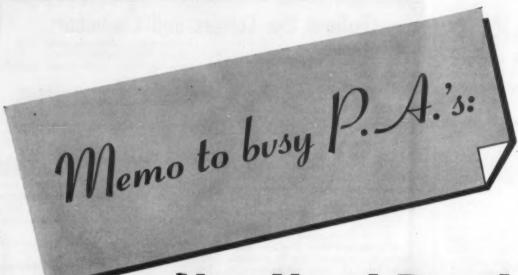
GARDEN CITY, N.Y. PI 1-1200 NEW YORK, N.Y. FI 3-5800 NEWARK, N.J. MA 3-1117

BOSTON, MASS. LA 3-6119 CHICAGO, ILL. AV 2-3232 **CULVER CITY, CAL. WE 3-9595**  821 STEWART AVENUE, GARDEN CITY, NEW YORK

VEST SALES OFFICE 6424 West Belmont Ave., Chicago 34, III.

MANUFACTURERS OF STAINLESS STEEL FASTENERS SINCE 1929

WEST COAST OFFICE & WAREHOUSE 5822 West Washington Blvd., Culver City, Calif.



### THE BUSIER YOU

# You Need Purchasing Week for



"... as a corporate source of purchasing information—the foremost assignment of a purchasing executive—it's imperative that I have accurate, easily digestible material on all phases of purchasing. Purchasing Week presents significant data in a condensed format that helps me accomplish more during my busy day."

-J. P. Moorhouse, Director of Purchases Standard Pressed Steel Company

# TYPICAL COMMENTS FROM PURCHASING WEEK SUBSCRIBERS:



"... PURCHASING WEEK gives excellent basic information in one timely source—something I've always wanted. Commodity prices and other trend data are reported in detail. The entire combination of editorial material is terrific."

-W. J. Cullen, Dir. of Purchasing Pepsi-Cola Company

"... Purchasing Week always seems to have something of interest on every page. I particularly like its lively presentation of new products and developments. What's more, I find the weekly reports on prices and production most helpful. The format is just right for speedy, informative reading."

-R. E. Urinyi, Purchasing Agent Royal McBee Corp.





"... Purchasing Week lives up to one of the most important words in the vocabulary of purchasing—reliability. I have found Purchasing Week to be timely, accurate and extremely readable. Its presentation of news in our field has made a definite contribution to easing the job of purchasing executives."

—Barry Shillito, Head of Material General Office Hughes Aircraft Company

HERE'S
WHAT YOU
GET IN
PURCHASING
WEEK...

**NEWS**... from home and abroad: government policies and decisions, labor, strikes, transportation, costs.

prices . . . 8 exclusive regular features, indicators to help you forecast trends, warn you of pitfalls to avoid . . . exclusive reports from McGraw-Hill's Dept. of Economics, head-quarters for business information.

**METHODS** . . . up-to-the-minute, practical ideas by the score to help you step up the efficiency of your operation . . . profit from the experience of others.

**NEW PRODUCTS** ... dozens in each issue, in handy  $3 \times 5$  format for easy filing—complete with photos, description, name of manufacturer, price, availability information.

MANAGEMENT MEMOS . . . tips and inside slants on what's new in purchasing management, how to advance on the job, how to make yourself a more important part of the management team.

PLUS . . . PERSPECTIVES: exclusive look-ahead commentaries of Prices . . . Washington . . . Purchasing . . . Foreign . . . New Products . . .

# ARE, THE MORE

# Information to Help You in Your Job

You can't afford to run the risk of not being "in the know" about what's going on in the market-place—not at today's high cost of a wrong buying decision.

Let's face it: You've never been called upon to be sharper or shrewder in buying and evaluating goods or services—and there's never been a time when events affecting such buying are happening at a faster clip.

That's why most of the nation's top purchasing executives in industry and government read Purchasing Week regularly—

... indeed, more forward-looking P.A.'s subscribe to Purchasing Week than to any other publication serving the field!

Such enthusiastic approval from the toughest buyers of them all hasn't happened by chance.

In the true McGraw-Hill tradition, Purchasing Week was created to provide today's purchasing executive—whose problems are becoming increasingly complex—with a complete information service that would cover all of his job interests... that would sift, analyze and present the news, prices, methods and new products that are so much a part of his daily working tools.

You're missing plenty if you don't receive Purchasing Week regularly. It's loaded with all of the news of purchasing you need—indeed, must have, to operate successfully in the '60's.

MONEY-BACK

# Unconditional Guarantee:

We're so convinced you'll find Purchasing Week indispensable that we make you this iron-clad guarantee: If at any time, or for any reason, you are not completely satisfied with Purchasing Week, we will refund in cash the unexpired portion of your subscription.

SUBSCRIBE TODAY TO PURCHASING WEEK—McGraw-Hill's National Newspaper of Purchasing

PURCHASING PARADE: personal glimpses of P.A.'s in the news . . . The Law and You: Tips on legal angles in purchasing . . . P/W Transportation Memo: News of interest about carriers, rates, etc. . . . What Value Analysis Can Do for You: Pictorial treatment of money-saving ideas you can adapt . . . Purchasing Week Asks You: Open forum on pertinent questions of current interest . . . P/W Reports of Resale Prices: Price data on used heavy machinery to help you buy or sell . . . Where to Buy It: A service to help you locate sources of supply for hard-to-get items . . . and much more.

Get your own

personal copy of

**Purchasing Week** 

regularly . . .

Mail the card

or the coupon

back to us today

PURCHASING WEEK, 330 West 42nd Street, New York 36, N. Y.

Yes, I'd like to try PURCHASING WEEK. Enter my subscription for one year (52 issues) and bill me for \$6 later. I understand that if for any reason I'm not completely satisfied with this service you'll refund for the unfilled portion of my subscription.

Address

□ Bill company □ Bill me □ Payment enclosed

NOTE: If you would like PURCHASING WEEK delivered to your home, as so

many of our subscribers do, simply jot your home address in the margin below and return.

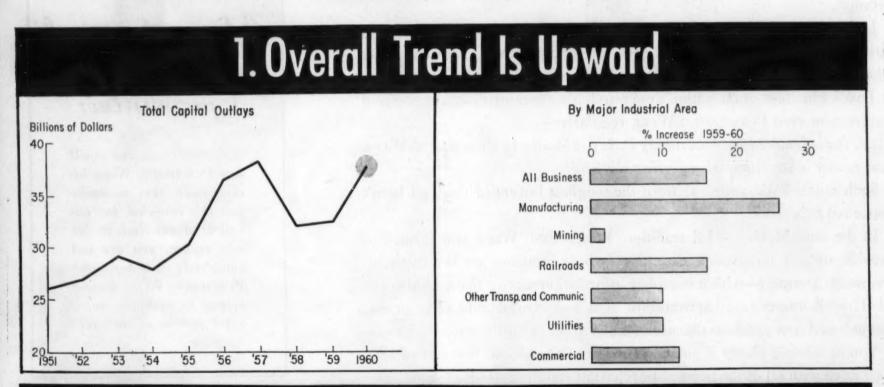
# WHAT THE NEW PLANT AND EQU BUYING PLANS WILL MEAN TO

New capital expenditure plans for 1960 are surpassing all earlier estimates. New McGraw-Hill Survey now puts '60 outlays at \$37.9 billion, the highest rate in history.

What's more, advance plans for 1961-63 are almost as high. These latter years are usually underestimated because many firms have not yet firmed up plans that far in advance.

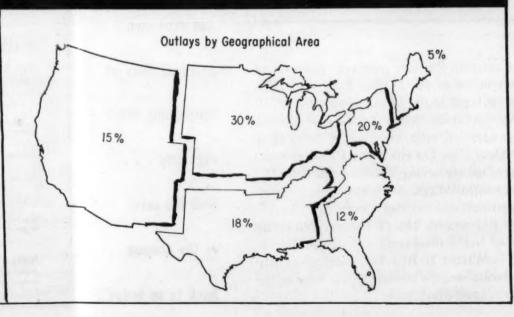
The new buying surge means:

- · Increased purchases of machinery and equipment.
- More efficient production hence greater productivity and less inflation.
- Ample supplies with little possibility of shortages in the years to come.
- Thousands of new products (stemming from new equipment), big increases in research.



# 2. These Are the Breakdowns

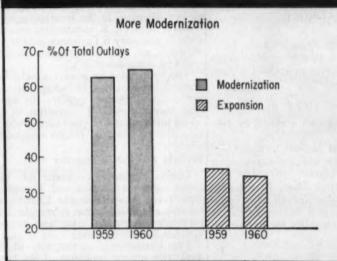
Specific Industries (Millions of Dollars)					
Industry	1959 Actual	1960 Planned	1959-1960 % Change		
Iron & steel	\$1,036	\$1,637	+58%		
Nonferrous metals	313	369	+18		
Machinery	909	1,253	+38		
Electrical machinery	519	763	+47		
Autos, trucks & parts	641	1,064	+66		
Other transport equipt,	390	468	+20		
Other metalworking	876	973	+11		
Chemicals	1,235	1,704	+38		
Paper & pulp	630	788	+25		
Rubber	190	266	+40		
Petroleum & coal	2491	840	+14		
Food & beverages	825	874	+ 6		
Textiles	412	480	+17		

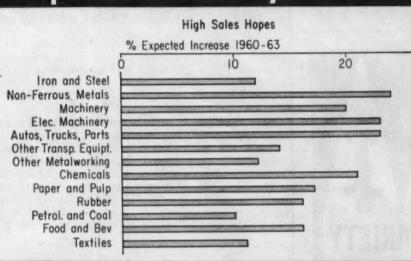


# PMENT YOU

- How Much Plans Are Up
- Where Gains Are Centered
- Why The Rising Trend
- · What The Effect Will Be

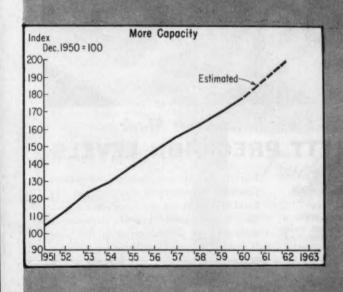


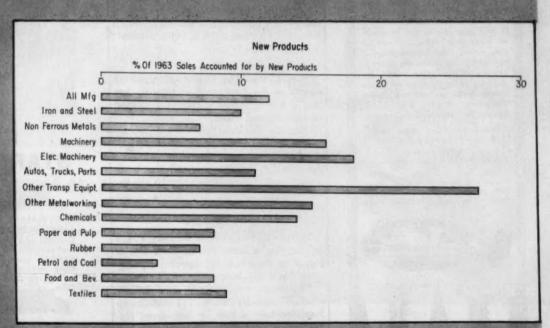




# 4. The Payoff

Postinging West





30

### Israel Authorizes Projection For Reclamation of Rubber With American Firm's Help

Tel Aviv-The Israeli government has okayed a plan to reclaim large quantities of scrap rubber by authorizing a licensing agreement between U. S. Rubber Reclaiming Co., Buffalo, N. Y., and Gamid Rubber Products & Plastics Ltd., Natanya, Israel.

#### \$300,000 Plant

Under the patent and technical aid agreement, the American firm will supervise construction of a \$300,000 plant with an initial capacity of 7,000 lb./day. Eventually the factory will be expanded to a daily capacity of 20,000 to 25,000

lb./day.
Output of the new plant, which scheduled to go on stream early in 1961, will be used for fire hose, tubes, and mechanical goods—all for export. Gamid is a subsidiary of Koor Industries & Crafts, Ltd., division of Solel-Boneh Ltd.,



made fasteners means that Southern's variety of items, sizes, materials, head styles and sizes, materials, head styles and finishes can be your sources of constant supply. Standardize 100% on Southern fasteners, and forget about carrying a large, costly, space-consuming inventory. Let Southern's variety and famous service help solve your fastener problems.

It will pay you to try Southern on your next order. Write to-day, using your letterhead, for our Stock List showing current variety of fasteners ready for delivery in large or small guest delivery in large or small quantities. Address Southern Screw Company, P. O. Box 1360, Statesville, North Carolina.

Manufacturing and Main Stock In Statesville, North Carolina

WAREHOUSES: New York • Chicago • Dallas • Los Angeles chine Screws & Nuts • Tapping
ews • Wood Screws • Stove
its • Drive Screws • Carriage
ts • Continuous Threaded Studs



This Week's-

# Foreign Perspective

Tokyo-It looks as though a shipping-rate war is in the cards for the Japan-to-U.S. trade route.

The situation came to a head recently when Barber-Wilhelmsen Line, of Norway, walked out of the Japan-Atlantic and Gulf Freight Conference, a 19-member group composed of nine Japanese and 10 foreign flag lines. The Norwegians had asked the Conference to chop its freight rates 10% to 15% in order to

compete with independent lines plying the same routes.

When the Japanese vetoed the proposal, Barber walked out, and the implications are they'll now compete with the independents on their own. Should the other European lines do the same, it could mean a return to the 1953 rate war, which saw shipping costs tumble from \$35/ton to \$10/ton on the Japan-to-Eastern U.S. run while Japan-to-West Coast rates fell from \$30/ton to as low as \$8/ton.

London-Tin prices are holding steady in London-but one market expert, A.

Strauss & Co., feels they may not stay that way for long.

In its recent report on the tin market, Strauss said U.S. tinplaters have been relying less and less on Straits and English tin. They've been turning to Indonesia for their supply—a buying switch that could have adverse affects on London and Straits prices.

Indonesian ore, says the Strauss review, is being gobbled up by an unnamed Texas If this continues, the report indicates even the upcoming New York International Tin Conference may not be able to control world prices of the com-

Graz, Austria-A steel fabrication firm here has broken with tradition by constructing a circular-shaped plant.

The new design, says Stahlbauwerk L. Binder & Co., cuts internal transport distances 22%, decreases outside wall area 23%, and chops maintenance costs "considerably" in comparison to a similar-sized rectangular plant.

The 50,000-sq. ft. factory has two concentric production lines. In the center of the building is a "utility" pole containing the generator for all plant electricity. In addition to crane attachment, this center pole also has loudspeakers and a television "eye" to aid management in keeping a tight control on production.

Bonn—How big is big? Obviously, Alfred Krupp doesn't know or care. Now he's getting set to merge his entire coal andsteel holdings into one giant company, called Huetten Und Bergwerke Rheinhausen, A.G.

The move comes despite a much post-poned order by the Western Allies' high command for Krupp to begin divesting himself of some of his vast holdings.

Moscow-Hopes for an early easing of international rubber prices have been severely jolted by the recent Soviet purchase of 4,000 tons of natural rubber from the British government stockpile. That brings total Russian rubber purchases to 7,000 tons for the March-April period. Current rubber price outlook: Steady to higher.

New Delhi-The Indian government's supply of hard currency is now so low that it has turned to barter as a method of international trade.

The State Trading Corp., official agency set up to handle all barter deals, is now offering manganese ore as its biggest commodity. In return, the trade group wants to purchase as much steelsheets, wire, tinplate, stainless-as it can lay its hands on.

Hamilton, Ont.—Steel industry P.A.'s are keeping a sharp eye on Steel Co. of Canada's plans to boost sintering capacity at its big works here.

The move, which would raise Stelco's over-all capacity from 21/2-million to 3-million tons a year, is considered significant by steel-makers both here and in Pittsburgh because it marks another step in the successful application of the new self-fluxing sinter process for making iron.

The new process consists of feeding a mixture of iron ore, limestone, and dolomite into the sintering plant, where it is converted into clinkers and then fed to the blast furnace.

### Foreign Expert Urges European P.A.'s To Adopt U. S. Methods

Schaveningen, the Netherlands-European P.A.'s are turning to their American counterparts in an effort to bring overseas

purchasing techniques up to date.

American purchasing methods, including value analysis, use of data processing equipment, and other techniques, were termed "admirably efficient" by Paul Gros, president of the European Federation of Purchasing.

### **Information Sharing System**

"We shall soon contact our sister or-ganization in America," he told the sec-ond annual meeting of the EFP, "in orond annual meeting of the EFP, "In order to arrange a system to bring some of their valuable knowledge" to Europe. Gros mentioned exchange visits and correspondence as one method of doing this. The delegates to the meeting agreed: Contact with U. S. purchasing associations is necessary if European industry is to catch up with the progress already.

tions is necessary if European industry is to catch up with the progress already made by American P.A.'s.

The EFP called for greater standardization of buying terms, including delivery, services, and product quality. In addition, they appointed a committee to set up an international conduct code—which may also be based on NAPA standards. may also be based on NAPA standards.

#### Brought 240 P.A.'s Together

Despite a growing economic split between Common Market and European Free Trade Association, the EFP meeting was significant in that it brought 240 purchasing executives from both groups together for the first time.

The international conference, which dealt with general problems of the buying profession, resulted in unanimous agreement on one topic: American P.A.'s are way ahead of European buyers.



No Finer Instruments Made

### STARRETT PRECISION LEVELS



STARRETT No. 199 MASTER PRECISION LEVEL

Ground and graduated main vial sensitive to variations of 0.0005" per foot. Special 0.0005" per foot. Special alloy, seasoned base has insulated top plate. Length 15".



No. 97 — No. 98 Series MECHANICS LEVELS

No. 97 with plain, No. 98 with ground and graduated main vial; also cross test and plumb vials. Base grooved with special involute design for flat or cylindrical work. 4, 6, 9, 12, or 18-inch sizes.

Starrett Levels are designed to assure precision operation of the machines you build as well as the machines you operate. They belong in every erecting department, toolroom and production shop. Ask your Industrial Supply Distributor or send for Starrett Catalog No. 27 describing the complete line. Address Dept. PW.

World's Greatest Toolmakers

PRECISION TOOLS

The L. S. STARRETT COMPANY . Amol, A

## Foreign News In Brief

### 'Sell or Get Out'

Paris-Despite fierce opposition from privately owned oil firms, the French government has approved creation of a state-controlled oil refining and marketing

company.

The new company, to be called Union Generale des Petroles, will take over majority control of U. S.-owned California Texas Oil Corp.'s refining, marketing, and maritime transport facilities under the terms of a "sell-or-get-out-of-France" contract. Caltex, in exchange, will get a one-third stock interest in the new com-

#### Ford to Expand

Coblenz, Germany — Ford-werke A.G. and its parent company, Ford Motor Co., are currently dickering with town councilmen here over purchase of

a 250-acre site for its new plant. The new plant, which will employ some 4,000 to 6,000 workers, will supplement the com-pany's car-production facilities in Cologne.

### **Shadow Projectors**

Turin—Microtecnica, a leading Italian manufacturer of precision testing equipment, has introduced four new types of shadow projectors to determine flaws in small dimension mechan-

ical parts.

The four new models are the P-400, with a 400 mm. screen and episcope; P-600, with a 600 mm. screen and episcope; the P-1,000 with a 1,000 mm. screen for large profiles; and the MI, with 250-mm. screen (for laboratory and shop use). Hamilton Standard, division of United Aircraft Corp., owns a half interest in Microtecnica.

### **Expand Aluminum Output**

Budapest — The state-con-trolled aluminum industry will build a new stamping and extruding plant and a new rolling mill this year.

The extruding and stamping facility will have an annual ca-pacity of 15,000 tons, while the rolling mill will turn out 40,000 tons of aluminum yearly. The current Hungarian Seven-Year Plan, which began in 1958, calls for a doubling of total national output of the light metal by 1965.

### Japanese Showplace

Tokyo—The Japan Export Agency (JETRO) has set up a permanent showplace here for industrial products.

The new exhibition hall, called Japan Design House, will provide visiting buyers with "instant" data on all manufacturers whose goods are on display.

### Form Steel Subsidiary

Toronto-United Steel Corp., Ltd., has formed a new subsidiary to manufacture and distribute steel strapping. The new division, United Steel Strapping, Ltd., is expected to go on stream within three months.

### Pig Iron Plant

Toronto-One of Canada's most diversified industrial firms, Consolidated Mining & Smelting Co. of Canada, Ltd., is going into still another industry. Its new 36,000-ton/yr. capacity pig iron plant—first in the Canadian West -will go on stream in 1961 in Kimberly.

Consolidated, which is controlled by Canadian Pacific Rail-way, currently mines lead, zinc, gold, silver, and rare industrial chemicals. It also makes fertiliz-

ers and chemicals.

# Japanese Fair Introduces New Products

Oska-American businessmen got a preview of what they'll be buying from thriving Japanese industries at the recent Japan In-dustrial Trade Fair here.

The big fair, which kicked off a \$1-billion export boom last year, provided these new-product

• "Brain - controlled" rolling mill. Yaskawa Electric Industries exhibited a miniature model of an automatic rolling mill, controlled by computers equipped with "parametrons"—a newly with "parametrons"—a developed semiconductor.

car. People's a tiny two-seater car designed to sell in mass markets for under

• Pint-sized tillers. Both Mitsubishi and Kubota Co. intro-duced their new "tiny tillers" de-signed to sell at prices low Another Standard entry in the

Mitsubishi provided by the big electronics Heavy Industries, Ltd., showed firms, such as Standard Radio buyers its new Mitsubishi "500" Corp., which displayed the battery operated radio-phonograph combination. Described as the smallest of its kind in the world. it will be marketed in the U. S.

enough for the poorest of Asian electronics export derby was a peasants. The tiller may also be \$50 tape recorder—"just larger exported to America for sale to than a pack of king-size ciga"back-yard" gardeners.

Transistorized radio-phonograph. Highlight of the fair was sity."



# G.O. GARLSON Inc.

Producers of Stainless Steel

144 Marshallton Road THORNDALE, PENNSYLVANIA District Sales Offices in Principal Cities



PLATES . PLATE PRODUCTS . HEADS . RINGS . CIRCLES . FLANGES . FORG BARS AND SHEETS (No. 1 Finish)

Why? The customer's production schedule may

have changed suddenly. Perhaps quick delivery is

needed to repair a vital piece of equipment. Whatever the reason, the customer knows he can count on

Carlson for exceptional service. For Carlson is accus-

tomed to producing and delivering, fast, a wide variety

your phone. Call or write for prompt action. The

Specialized Carlson service is as near to you as

of high quality stainless steel products.

phone number: DUdley 4-2800.

# SBA Gives Hints on Getting Government Work

### Seminar Outlines Steps Small Business Can Take To Obtain Subcontracts

Garden City, N. Y .- If small business men want government contract work from military or prime contractors, they'd bet-ter get out pounding the pavements. Or see that their facilities are registered with Small Business Administration and Department of Defense procurement people

Although it's federal government policy to see that small business gets a fair share of prime and sub-contracts, procurement people and P.A.'s looking for likely subcontractors can't go out and drag them into the office. It's up to small business

to take the first step.
Some 650 small business men, Defense Department buyers and prime contractor procurement people heard this message at an SBA sponsored seminar at Adelphi

# "This chart survey saved us work, time and money!"



"I used to order recording charts as frequently as we needed them. But not now. This simple survey helped me place a single long-term order for GC charts with automatic deliveries spaced to our requirements."

You, too, can stop fussing with lots of little orders, for lots of different of little orders, for lots of different recording charts, from lots of differ-ent suppliers. Send for a GC Chart Survey Form. Merely list chart numbers and the quantity you use. Return your completed Survey to GC and they will send you free chart samples for your engineers to check and a firm price for filling all your chart requirements. If it looks good you can then place one order covering several months or even a full year. GC will make automatic deliveries to meet your needs.

In addition to saving time and clerical work, GC charts cost less because they are produced in such large quantities so efficiently. And their quality is guaranteed by GC, the world's largest recording chart specialists.

Start saving—and get quality and service. Write today for your chart survey forms.



DISTRIBUTED BY:

TECHNICAL SALES CORPORATION

n Rensselaer St., Buffalo 10, N. Y.

A SUBSIDIARY OF: GRAPHIC CONTROLS CORPORATION **Buffalo 10. New York** 

College, Garden City, Long Island. It was the first of a series SBA is running to bring small businessmen in the research and development field into contact with top local procurement men. This way, SBA hopes the little fellows will get to know the local government buyers and company P.A.'s with whom they will deal on contracts.

SBA invited firms from the New York metropolitan area, and felt that the turn-out indicated the high interest in govern-ment procurement. Alfred Wiebe, Chief of the Research & Development Section, noted that among the registrants were 90 company presidents, 92 vice presidents, and 95 chief engineers.

### On the Buyers' Side

On the buyers side there were P.A.'s from Sperry-Rand, International Telephone & Telegraph, IBM, General Dynamics' Electric Boat Division, Pratt & Whitney Div. of United Aircraft, and others. Defense Department was represented by procurement people from the Signal Corps Lab at Fort Monmouth, N. J., the Navy Training Devices Center at Port Washington, N. Y., and the Air Force Research and Development Commond

Wiebe urged small businessmen to make sure they were registered with the local SBA office, and to keep the survey of facilities and personnel (Form 449) up to date. This is the file that SBA turns to when corporation or government procure ment people ask them for vendors. "This lets them know what you can supply, and backs up your bids," Wiebe noted.

He told the seminar that the SBA "goes to directors of purchasing at large

companies to stimulate interest in small business—in your behalf. (See PURCHAS-ING WEEK Feb. 22, p. 28). We get calls every day from P.A.'s. They ask us for reputable sources of supply for things and services they want to locate

Harry Stegeland, Small Business Specialist at the Air Force Research and Development Command, New York, also urged small business to register with the SBA, and to contact local procurement people and P.A.'s. "You have to meet the people who are in a position to handle contracts," said Stegeland. "You have to sell to both government contracting people and prime contracter P.A.'s."

ARDC has a program to help out small

business on this count. The local ARDC small business specialist will get the small businessman to the right project engineer, procurement official or prime contractor P.A. But it involves red tapé—registering

at the SBA for one thing.

However, there's a new system (called "CATE") coming up which will speed vendors to officers in charge of buying their products. It's simply an IBM card that the vendor fills out, indicating his production specialties and personnel. Then a quick card sort and print-on computor gives the vendor a list of men and offices that can help the small businessman get contracts.

### Compete Where You're Best'

Although it will be easier to get contracting opportunities, Stegeland urged vendors to stay in their areas of knowledge. Trying to fool a procurement man won't work, because your mistakes will be caught on poor performance. "They have long memories," commented Stege-

John V. E. Hansen, Contracts Manager at National Research Corporation, Cambridge, told the small businessmen and P.A.'s that they can do a lot to improve their batting average on bids and proposals. One firm he noted, had only 3% of its proposals accepted in 1955. But after putting in a program of careful analysis on outgoing bids, the company now gets contracts on 10% of the proposals. This means tighter costing and business.

better planning—all points where the ment procurement was a government-P.A. can help with materials prices and industry team operation."

availability schedules.

Representing large business and prime contractors was IBM's J. W. Haanstra, contractors was IBM's J. W. Haanstra, Assistant General Manager of the General Products Div., White Plains, N. Y. He explained that although many large firms had excellent research, development and production facilities, they frequently went to sub-contractors for help.

There are good reasons for this: The corporation may not have capacity to do

As an example, he cited Tiros I, the new weather satellite that transmits pictures of cloud conditions back to earth. This information allows weathermen to make better forecasts of coming storms. The Signal Corps Lab provided some of the research and development that went into the electronics of Tiros, but "the assistance of many sub-contractors was needed," said Petrillo.

He also directed the attention of the

### For Help on Government Contracts and Subcontracts, Here's What You Should Do

### As a P.A. Seeking Subs:

- 1. Contact your regional SBA office when you need a vendor; the SBA will suggest several. Check other SBA offices for more.
- 2. Keep in touch with Defense Department Small Business Specialist in your procurement district.
- 3. Put a buyer in charge of small business relations. Have him keep track of products small businesses can supply; the special skills they have.

### As a Small Business:

- 1. Register with the SBA office by filling out a facilities and personnel survey Form 449. SBA will arrange a plant visit by one of its contract men to look over your plant and suggest products you can make.
- 2. Check with Defense Department Small Business Specialist. He'll keep you in mind for set-asides and sub-
- 3. Get out and meet P.A.'s at prime contractors near you.

the additional work at a particular time, and so must fall back on small contrac-tors. Or, "because of our (IBM's) narrow product line, we frequently have to subcontract other kinds of work. We can't always obtain the technical competence in our own organization. Often we do better working with outsiders."

### **Increasing Opportunities**

IBM's Haanstra indicated that there would be increasing opportunities for small business in the area of solid state and semi-conductor circuit elements. Business computers of the future, he said, will depend on this type of circuitry for compact size and economy of operation.

"We procure a large part of our re-quirements for this type of product from other companies," Haanstra said.

Not only will small business be producing the components for computers, they'll also be on the using end, too. Haanstra noted that computing devices, "were mov-ing forward from the position of scorekeeper to one of a player."

Computers formerly were the province of data processing specialists, accountants and research workers. "Now they are go-ing into the decision-making phases of management. We're not talking just about keeping score; but moving in and con-trolling processes and making decisions."

Representing the Army Signal Corps Lab at Fort Monmouth, N. J., was S. E. Petrillo, Director of Engineering. Petrillo said that "effective research and develop-

P.A.'s and small businessmen to the electronics components field. Needed items for 1960 include power sources, batteries and semi-conductors. These will be used in Signal Corps communication equipment. More exotic sub-contracts are available for components that will stand up under the high temperatures found in missiles. These components will provide the works for satellite based, earth sur-

veillance systems.

Firms without electronics capabilities can find good contracts in some of the devices described by John F. Bodenberg, Technical Director of the Naval Training Devices Center, Port Washington, N. Y. Bodenberg described contracts for training aids ranging from devices almost as complicated as a missile down to simple plastic and wood mock-ups. Here even the smallest firm can find possible

# switch connors

or a complete line of light rail, trackwork and trackwork accessories call on Connors. Whatever your needs, Connors engineering staff can assist you in replacement or new track installations. Our one plant production allows shipment in mixed carloads. For more information or catalog, write West Virginia Works, P. O. Box 118, Huntington, West Va.

### Small Firm to Compete With Giant IBM on Home Ground

Binghamton, N. Y.—A new firm, Tech Panel Co. is proving it is not afraid to compete with an industrial giant.

The company is building a small plant here to make and sell a line of control panels for use on IBM machines—in direct competition with International Busi-

ness Machines Corp.

R. Ross Price, Jr., president of Tech
Panel, said it was decided to locate the
business here to take advantage of the
"technical knowledge in this area" about
IBM machines. He also noted that the
Triple Cities area is within 250 miles of a large percentage of the nation's computer

# Bethlehem Negotiator Raps Big Union Power

New York—A leading labor relations specialist told members of the New York Purchasing Agents Assn. that much of the cent steel strike, he said, was that relationary as a great segment of industries."

The basic cause behind the relationary as a first billed as a great union victory; however, he reresponsibility for rising prices must rest on labor's shoulders, since "stable prices and big

since "stable prices and big unions are incompatible."

Speaking at the group's April meeting, John H. Morse, a member of Bethlehem Steel Co.'s labor negotiation team, hit out against what he termed the monopolistic economic and pomonopolistic economic and po-litical power of big unions to-

day.

Morse, a partner in the New York law firm of Cravath, Swaine & Moore, gave purchasing agents a capsule rundown on Bethlehem Steel's recent shipbuilding and steel negotiations with the unions.

Labor negotiations, he

Labor negotiations, he stressed, should be approached from the standpoint of the wel-

Officers of the Machine Tool Manufacturers Buyers Group, NAPA, have cancelled their proposed meeting at the NAPA national convention in May. John M. Stewart, chair-man of the group, gave "lack of attendance by officers and members" as the reason for the cancellation.

fare of the whole industry. think the the answer is," he said, "to change the area in which

bargaining takes place. Bargaining must go back to the locality."
"I am not anti-labor," Morse told P.A.'s "I firmly believe individuals should have some source of collective security but I do question the present condi-tions where unions have mo-



ANNE D. REPKO: recently no to Board of Directors of N. Y. Association. First woman to hold post, she is purchasing agent Austenal Co., a division of

### PURCHASING PARADE

(Continued from page 10) Allen Murray, P.A. for the Bel-mont Casket Co. (Columbus, O.), capitalizes on his droll "Digger O'Dell" type of humor at monthly association meetings telling strangers that "I'm in under-ground novelties" or that his company manufactures "the last word in containers."

Bachelor President: James B. Harrington, P.A. of Birmingham Paper Co., assumes his duties as President of the Purchasing Agents Association of Alabama next month.

He has the distinction of being the only bachelor president ever elected by the Association.

the steel companies wanted to avoid more inflation, but the unions were insistent on policies that fostered it. This, he main-tained, was the real issue, although

ducers feel they did succeed in increase in productivity.

pect. The steel strike settlement was at first billed as a great union victory; however, he reported, employment costs were estimated to increase only 3½% to 3¾%—less than half the cost of the prior contract.

that fostered it. This, he maintained, was the real issue, although
he said the steel companies also
injected into the dispute proposals designed to make their
operations more efficient.

As a result of the fight the steel
industry put up, Morse said producers feel they did exceed in increase in productivity."

### Use of Purchasing Manuals Is Urged

heard a double-barreled plea for wider use of purchasing policy print" on management. He also manuals at the recent annual cited value analysis and stand-president's night banquet of the ardization in buying, knowledge Cincinnati Association of Purchasing Agents.

The meeting was a joint affair

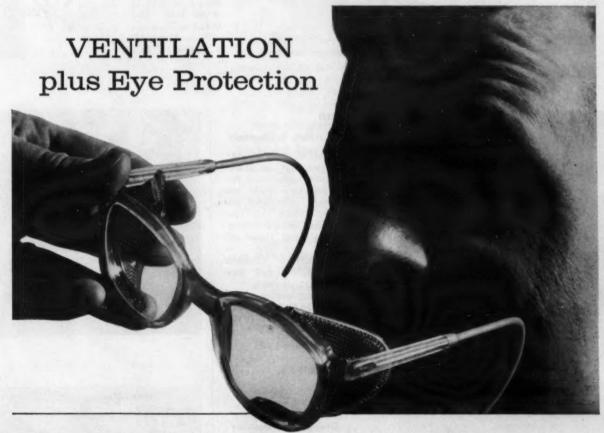
told the group that use of a pur- the meeting.

Cincinnati-Purchasing agents chasing manual was one of four ways they could make "an imprint" on management. He also of what NAPA's Professional Development Committee can offer, and "making money savings for

with the local chapter's Women's Division and members of the Dayton and Springfield Purchasing Agents Associations.

C. Warner McVicar, 6th District vice president and director of purchasing and traffic for Rockwell Mfg. Co., Pittsburgh, also urged more use of purchasing manuals in the major address of the meeting, Thomas O. English, NAPA president and general purchasing agent for Aluminum Co. of America, Pittsburgh, also urged more use of purchasing manuals in the major address of the major address of the major address of the company and reporting it."

In the major address of the meeting, Thomas O. English, NAPA president and general purchasing agent for Aluminum Co.



Workers get 1,000 "Breeze Catchers" in

# Flexi-Fit

with New Wire Mesh Side Shields

For Flexi-Fit, the goggle with the saddle type bridge that fits so many workers, AO has developed new side shields of black oxidized metal with acetate binding. The wire mesh screen offers an increased ventilation certain to increase worker comfort on hot jobs and humid weather.

Available heretofore only with a pink crystal frame, the goggle may now be had in mahogany for those who prefer this shade.

prefer this shade.

Introduced only recently, Flexi-Fit has proved very popular where plane eye protection alone is required because it simplifies fitting. Where workers require correction as well as protection, the more precise "tailored" fitting which can only be provided by the full range of eye sizes and bridge sizes is needed. Catalog No. F9600L. Flexi-Fit Safety Glasses also available without side shields — Catalog No. F9600.

Always insist on & Trademarked Lenses and Frames



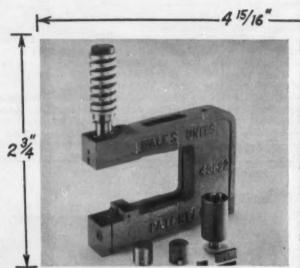


- 1 Bridge size for each eye size (Eye sizes 44, 46 and 48 FV 7). Fits more workers than comporable goggles.
- Nonflammable, shape-retaining
- Patented eyewire holds le safely without strain
- Won't conduct electricity
- Comfort cable and spatula
- Your nearest AO Safety Products

Your surest protection ... AO SURE GUARD Glasses

### Here's your weekly guide to . . .

Picture aids product recognition



#### Punch

#### **Makes Holes**

Punch uses either button or pedestal dies to make round and shaped holes. While button unit allows while button unit allows 360 deg. rotation of shaped dies pedestal model can set shaped die in 2 positions, 90 deg. apart. Unit converts simply from round to shaped hole production

hole production.

Price: \$40.80 (4 in. throat) to \$71.25 (12 in.) round hole. Delivery: im-

mediate.
Wales Strippit Inc., Akron,
N. Y. (PW, 5/2/60)

Size permits you to paste on 3×5 card Copy gives only pertinent details, cuts your How much it costs and how soon you can get it You'll know when item oppeared



### Intercom

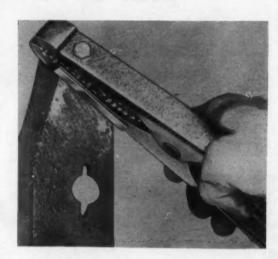
### Has 8 Channels

Eight-station plug-in intercom system has automatic volume control and noise revolume control and noise reduction circuits—needs no cables. Static eliminator on front panel shuts out unwanted line noises. Grey cabinet has front panel of silver, black, and blue.

Price: \$131.80 (master station); \$76.50 (staff station). Delivery: 10 days.

Feiler Engineering and Mfg. Co., 8026 N. Monticello Ave., Skokie, Ill. (PW, 5/2/60)

Ave., 5 5/2/60)



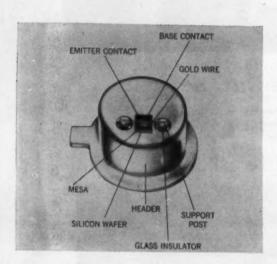
### Clamp

### **Grounds Cable**

Heavy-duty 300 amp. ground clamp runs the cable inside the handle up to the clamp jaws to reduce passage of electrical current through the handle and keep it cool. Design also keeps cable from twisting off where it enters the clamp. Jaws open to 21/2

Price: \$3.95. Delivery: 1 to

Twentieth Century Mfg. Co., 224 W. 82 St., Minneapolis, Minn. (PW, 5/2/60)



### **Transistor**

### **Gives High Stability**

Silicon mesa transistor for switching applications in computer circuitry has an output capacitance of 5 mmfd. and a guaranteed minimum-gain bandwidth of 200 meg. Leakage current of the transistor at 150 deg. C is rated at just 3 microamps.

Price: \$37.50. Delivery: immediate.

National Semiconductor Corp., Danbury, Conn. (PW, 5/2/60)



### **Briquets**

### For Investment Casting

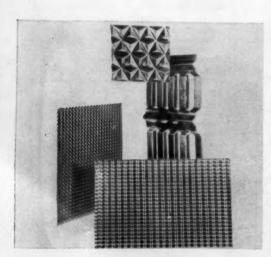
Stainless steel and alloy melting briquets for pre-cision investment casting are available in over 30 different alloys to exact specifications. The manufacturer also pre-pares briquets, on order, to

other desired specifications.

Price: 20¢ to 65¢ per lb.

Delivery: immediate.

Dreifus Steel Corp., 8 Cynwyd Rd., Bala-Cynwyd, Pa. (PW, 5/2/60)



### **Aluminum Sheet**

### Offers Classic Patterns

Aluminum sheet (4 ft. by 8 ft.) for building facades, display backgrounds, hand-rail panels, and similar uses, is available in 4 designs, in a choice of 11 finishes. De-signs feature pyramids, flat top perforations, round per-forations, or large verts

forations, or large vents.

Price: 58¢ to \$1.39 per sq. ft. Delivery: immediate.
Aluminum Co. of America,

733 Alcoa Bldg., Pittsburgh 19, Pa. (PW, 5/2/60)



### **Swivel Chair**

### **Uses Torsion Bar**

Steel swivel chair uses torsion bar to control tilting, has cantilever arms and foam rubber seat and back. Chair is available in a variety of fabrics, colors, and finishes, as are companion arm and side chairs.

Price: \$90 to \$109. Delivery: approx. 3 wk.

Harter Corp., Sturgis,
Mich. (PW, 5/2/60)

# **New Products**

Another PURCHASING WEEK service: Price and delivery data with each product description.



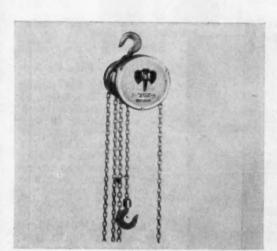
#### Scale Inhibitor

Treats Hard Water

Electrical device, con-nected to a standard a-c or battery source, causes hard water salts to precipitate as a fine powdery mass, and thus prevents the formation of hard scale in heat ex-changers, condensers, evaporators, and water distribution systems.

Price: \$98 to \$2,750 (for pipe sizes ½ in. to 8 in.). Delivery: 4 to 10 wk.

Dehydrosal Systems, Inc., 521 Fifth Ave., New York 17, N. Y. (PW, 5/2/60)



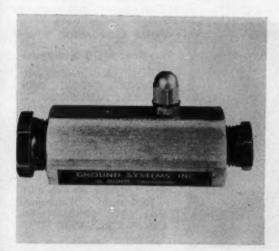
### Hoist

Lifts 1/2 Ton

Lightweight, spur geared hand hoist has working parts enclosed in aluminum alloy housing. It can lift up to ½ ton. Chain will not bind at any pulling angle, maker says. Seven other models are available with lifting capaci-

ties up to 10 tons. Price: \$125. Delivery: im-

Thern Machine Co., 3760 Fourth St., Winona, Minn. (PW, 5/2/60)



### Safety Lock

**Protects Cylinder** 

Lock prevents hydraulic cylinder failure in high-pres-sure systems. Installed at cylinder inlet, the lock closes when a line break occurs, trapping fluid in the cylinder, to keep the supported load

from dropping.
Price: \$49. Delivery: 2 wk.
Ground Systems, Inc.,
9752 Cortada, El Monte,
Calif. (PW, 5/2/60)



### Vendor

Displays 130 Items

Automatic vending ma-chine displays 130 cold food and packaged drink items for customer selection. Unit has maximum of 4 price set-tings, in any combination of coins between 5¢ and 50¢, but will not vend should the temperature of its refrigerating system rise above 50 deg. F. Price: \$995. Delivery: 30

Rowe Mfg. Co., 31 East 17 St., New York 3, N. Y. (PW, 5/2/60)

This Week's-

# **Product Perspective**

**MAY 2-8** 

• Direct conversion of electricity from fuel (without the usual turbinegenerators and auxiliary equipment) is just over the horizon. Four methods are fighting for the honors—thermoelectricity, magnetohydrodynamics (MHD), thermionics, and fuel cells.

Conventional methods of making electricity haven't changed in principle since the first turbine whirred. Machinery has gotten more sophisticated and bigger, but has been held in check by limits imposed by rotating

New methods under study do away with the moving parts and have theoretical efficiencies higher than anything now attainable. Experts think that MHD power stations can be built with over-all thermal efficiencies of better than 60%—this compares with the 40% to 45% rate of the most modern conventional plants. Present thermoelectric and thermionic generators are in the 5% to 10% efficiency range, but should pass the 30% mark by 1965.

These new power sources will affect auto and refrigerator design as much as central station power production. Here's a rundown on how each method works and what product areas the experimenters are aiming for:

• Thermoelectricity. Based on an old principle used in temperature recording instruments: When heat is applied to one end of two dissimilar conductive metals that are joined together the materials' negative electrons migrate to the cooler end. The resulting electric potential difference across the material produces a direct current through an external circuit.

Themoelectric devices are close at hand-look for a wide number of uses in both small-scale generating units and heating and cooling devices. Next week's perspective will take a closer look at what's in store.

• Thermionic. Works on the same principle as the electron tube. As the cathode of the device is heated, electrons bubble off and cross the vacuum to the anode. D-c power is generated by hooking a load between the two

The thermionic concept is in the earliest stage of development of any of the four systems. It's too early to predict what ultimate markets may be, but expect small scale-units first.

• Magnetohydrodynamics. Term has been shortened to MHD by engineers who found tongue twister too much to handle in everyday usage. A hot ionized gas is passed at high speed through a magnetic field placed at right angle to the flow of the gas. The magnetic field deflects the free electrons in the stream towards electrodes. The electrodes carry the current to an externally connected load. If the magnetic field is direct current, d-c power is generated; if it's alternating current, a-c power will be made.

Minimum operating temperature of an MHD generator is 5,000 F. Current problem is developing materials that can stand this high temperature for long periods of time. Late last year, General Electric built a lab-scale device capable of producing 1,000 watts in 5 second bursts.

A short time later, Acco Corp. announced development of an 11,000 watt generator and said, 100,000-watt version was in the works. Westinghouse has just unveiled a 10,000 watt model with operation of over four minutes. It burns furnace oil and oxygen.

Research is aiming towards using MHD for central station power genera-

• Fuel Cell. An electrochemical device that converts "free energy" of a chemical reaction directly into electricity. It is a cousin to the common wet cell battery, but in contrast to a battery, the cell uses low-cost fuels (such as propane) and an oxidant. The fuel is fed to the cell continuously. The fuel cell contains no moving parts and can theoretically operate at 70 to 90% efficiency.

High-temperature cells might become competitive with conventional largescale power sources in 10 to 20 years, but meanwhile, low-temperature cells (under 450 F) are angling for a number of jobs. Most immediate use will be for small, portable power source. GE's just announced 200 watt design for the Army is a signal that commercial applications won't be long in coming.

Material handling manufacturers have expressed much interest in cell-powered lift trucks and tractors. Allis Chalmers demonstrated a prototype farm tractor last fall and Yale & Towne is rumored to be working on a lift truck. All major auto companies are deep in experiments.

• How soon any (or all) of these direct-conversion methods reach the commercial point is up to the researchers. But there is no doubt in the experts' minds that direct conversion will have a huge impact on all product areas within the next decade.

# Your Guide to New Products -

(Continued from page 21)



### **Abrasive Disc**

#### **Gives Visibility**

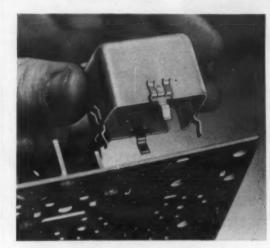
Aluminum oxide abrasive fiber disc, in 7-in. size, has 2 parallel straight sides which let operator see work he is grinding as disc rotates. The device, also available in an 9-in. size, minimizes chances of burning or distorting the

Price: \$62.80 per 100 (7

in.). Delivery: immediate.

Behr-Manning Co., 356

Howe St., Troy, N. Y. (PW, 5/2/60)



### Spring Clips

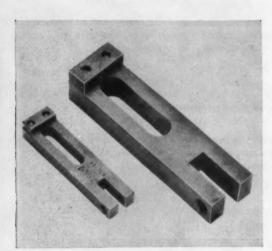
### Fit Circuit Board

Spring clips used to hold shielding cans on printed circuit boards come in chain form on reels, for machine application. Clip is fed and dimpled onto can in 1 operation. Soldered onto circuit board, the pretinned brass clip has high tensile strength.

Price: \$4 to \$6 per thousand. Delivery: 7 to 10 days.

Malco Mfg. Co., Dept.

PW-7, 4025 West Lake St.,
Chicago 24, Ill. (PW, Chicago 5/2/60)



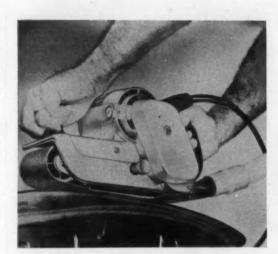
### Strap

### **Holds Any Shape**

Cam strap with soft metal pad, attached by 2 screws, holds any shape. Pads, available in sizes from 1/4 in. to 5/8 in., shape to fit work surfaces and are available page. faces, and are easily changed. The strap is hardened, and

has a black penetrate finish.
Price: \$1.95 to \$12.50.
Delivery: immediate.

Jergens Tool Specialty Co., 712 East 163 St., Cleveland 10, O. (PW, 5/2/60)



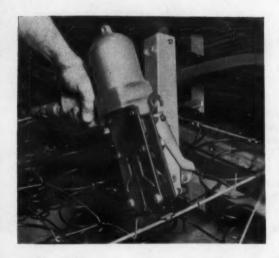
### Sander

### Picks Up Dust

Belt sander has vacuum dust pickup attachment, al-lowing simultaneous sanding and painting in same general area on resins, lead, or wood. Sander has a 4-in. belt and a gearless transmis-sion which needs no lubrication. Device can sand flush up to vertical surfaces.

Price: \$94.50. Delivery: immediate.

Skil Corp., 5033 Elston Ave., Chicago 30, Ill. (PW, 5/2/60)



### Clipper

### Joins Wires

Portable, pneumatic clip applicator can clip 2 wires securely together in less than 1 second. Operating at a recommended air pressure of 75 psi., the magazine fed clipper is available in models that join either 7 through 11 gage wire, or 11 through 13 gage wire.

Price: \$295. Delivery: 2

Paslode Co., 5860 Northwest Highway, Chicago 31, Ill. (PW, 5/2/60)



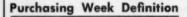
### **Pulse Generator**

### Runs to 10 Megacycles

Pulse generator offers continuously variable pulse widths from 0.02 microsec. to 12.5 microsec., at continu-ously variable pulse repetition rates from 1 cycle/sec. to 10 mc/sec. Both positive and negative pulses are simultaneously available.

Price: \$2,400. Delivery: 4

Rutherford Electronics Co., 8944 Lindblade St., Culver City, Calif. (PW, 5/2/60) Electronics



### Physical Characteristics

- Hardness is the resistance a substance exhibits to abrasion by another material. In metals, hardness is measured by three methods-the diameter of indentation a hardened steel sphere (Brinnell) makes, the depth of penetration of a diamond-tipped rod (Rockwell), the height of rebound of a small drop hammer (Shore Scleroscope).
- Stress is the force producing, or tending to produce, deformation in a body. It is measured in terms of force applied per unit area. For example, a force of 5 lb. exerted on a surface of 1 sq. in. equals a stress of 5 lb./sq. in. rigidity or mo change of vo (PW, 5/2/60)
- Strain is the deformation that results from a stress. It is measured by the ratio of the change to the total value of the dimension in which the change occurred. For example, if a stress causes a 10 in. length of material to stretch to 11 in., the strain equals 1:10, or 10%.
- Modulus of elasticity is the stress required to produce unit strain. It may refer to a change of length (Young's modulus), a twist or shear (modulus of rigidity or modulus of torsion), or a volume (bulk modulus).



### **Pipe Cutter**

### **Prevents Spiraling**

Pipe cutter cuts 1/8-in. to 2-in. material and has wide rollers to prevent spiraling. Wheel position allows quick, accurate setting to mark. Fast and easy cuts result as pressure applies directly to cutter wheel. Cutter can be used manually or with power drive.

Price: \$14. Delivery: immediate.

Beaver Pipe Tools, Inc., 360-40 Dana Ave., Warren, O. (PW, 5/2/60)

# Graybar President Forecasts Changes

Cleveland-Willard E. Henges, Graybar Electric Co. president, took a long look at coming changes in plant electric systems in a recent talk here. Speaking at the opening luncheon of the Electrical Industry Exposition, Henges predicted:

- More use of static switching devices to result from increased use of numerically control machine tools.
  - High-voltage, d-c distribution lines.

• Electric space heating and cooling-

possibly by means of peltier effect (reverse current junction method, in which flowing current through a junc-tion in one direction provides heat and cools in the reverse direction).



W. E. HENGES

· Commonplace use of

electrostatic dust collectors.

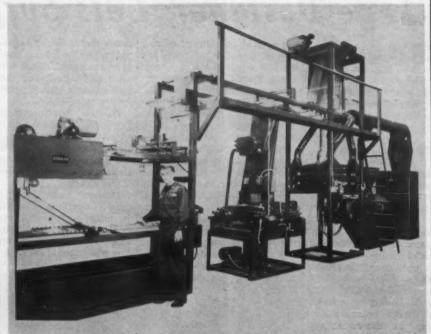
- Increased use of higher frequencies, currents and voltages.
- Footcandle levels of even higher limits than the 100 to 200 now considered good by illuminating engineers, with some estimates ranging from 400 to even 1,000 footcandles for specialized jobs.

The 150 manufacturers at the exhibit gave buyers an opportunity to see the latest in electric gear. Plastic conduit got one of its first viewings and many manufacturers pointed up the trend towards aluminum in bus ways and auxiliary power equipment.

Switch, meter and circuit breaker man-ufacturers exhibited small, lightweight designed to handle much higher

capacities than previous models.

The trend towards plant load center electric distribution systems that brings load directly into several plant locations (instead of from a single service entrance) was illustrated by a variety of exhibits of load centers, transformers, capacitors, and high and low voltage switching gear.



PLASTIC RESIN is loaded into right end of line—finished bags come out the other. Fully integrated system lets user keep close tabs on inventory. Bags printed in up to four colors.

# Integrated Plastic Bag-Making System **Requires Only Occasional Supervision**

Philadephia—F. J. Stokes Corp. has tween rollers and one surface electro-troduced a completely integrated plastic statically bombarded to roughen it to ag-making system—resin granules are take the printing ink. introduced a completely integrated plastic bag-making system—resin granules are loaded in one end finished bags come

out the other.

The Stokes equipment can make plastic bags up to 21 in. wide by 24 in. long, at production rates up to 120/min. Thickness can range up to 4 mils, and bags can be printed in one to four colors with or without yent holes. with or without vent holes.

The integrated system enables the baguser to exercise complete control over inventories and production schedules and allows him to take full advantage of new raw materials as they are developed. It eliminates the need for purchasing and stocking a large number of different thicknesses of films and for manipulating schedules of deliveries between film suppliers, printers, and converters.

The resin is extruded in the form of a

hollow tube, which is inflated while still soft and stretched to the desired thickness. The tube is cooled and flattened be-

The film is printed in one, two, or four colors and passed through an oven to dry the ink. The printed plastic is fed continously into a bag-maker which heat-seals one end and punches vent holes (if desired). The bags are cut to length and automatically stacked in two piles.

The entire system needs only occasional

supervision—integrated controls con-stantly coordinate process conditions and

compensate for variations as they arise.

The entire line will sell for \$50,000 including extruder. Delivery is being quoted at about one month.

### Where Can I Buy?

Some products are easy to locate, others difficult. Perhaps you can help one of our readers who knows exactly what he wants but doesn't know where to get it. And keep in mind that you can make use of this PURCHASING WEEK service at any time.

While you are answering our reader's request, would you also send us a carbon copy of your answer?

"We are looking for a source that can supply us with a flange wrench for use with cast iron companion wrenches. understand this wrench is used by sprinkler installation crews.

Carl K. Davis **Purchasing Agent** Globe Machinery & Supply Co. East 1st and Court Ave. Des Moines 6, Iowa

"We are interested in receiving information as to where we can obtain steel wool washers, sometimes referred to as steel wool friction disks."

Edward P. Fitzgerald Purchasing Agent Photon, Inc. 58 Charles St. Cambridge 41, Mass.

"We are looking for a source that can supply roll-to-roll printing. We need a continuous ruled form printed by offset in one color and delivered in rolls."

Raymond L. Winters

Purchasing Dept. Ad-A-Day Co., Inc. 175 W. Water St. Taunton, Mass.

# Standby' Spare Tire Deflates for Storage

Buffalo-The Dunlop Tire & Rubber

a spare tire that is stored deflated and blown up when needed.

Called the "standby tire", the spare consists of a narrow-section tubeless tire (less than 1-in, thick) mounted on a steel dick that her bales to worth the wheel disk that has holes to match the wheel studs of the car. The entire assembly looks like a flat tray. The tire is inflated by a carbon-dioxide bottle that comes with the unit.

The tire, designed to enable a car to reach the nearest repair point, can run a "considerable distance" with only slight loss in car performance.

Dunlop expects the spare to cost sub-stantially less than a conventional tire, but the company has no immediate production plans. Further development is being carried on by the Dunlop research and testing groups.



- · high resistance to impact loading

- maximum safety for overhead litting
   lighter weight for easier handling
   long life on toughest jobs



### FIRST CHOICE WITH EXPERIENCED CHAIN BUYERS SINCE 1933

Herc-Alloy is the original alloy steel chain...is heat treated by a special process... is electrically welded by exclusive Inswell time-tested method. All attachments are alloy steel including those to your specifications which are your specifications which are forged in our own shop. Spe-cify Herc-Alloy for the best of everything in sling chains.

CHAIN SAFETY PROGRAM literature and assistance



### COLUMBUS McKINNON CHAIN CORPORATION

New York • Chicago • Cleveland Les Angeles • San Francisco Canada: McKineos Columbus Chain Ltd. St. Catharines, Oot. Nerc-Alloy® CM®





# P.A. Turns Package Designer; Gets Surprise Award

# New Design Costs Less, some \$3.5-million to \$5-million **BetterVendorRelations**

Newark, N. J.—A purchasing problem got Federal Pacific Elec-tric Co.'s P.A., Alan R. Dawson, into packaging design work for the first time in his life.

The results were amazing:

• Federal Pacific cut packaging costs 40%.

• Packaging inventory was reduced.

New product sales rose.

• Vendor relations improved. Not only that, Dawson's efforts won top honors in container design in a contest in which he didn't even know he was entered.

The award, presented several weeks ago by the Folding Box Association of America, represents an industry Oscar for artistic achievement. But Dawson credits purchasing knowhow, rather than knowledge of aesthetics, for the background that won him the honor.

Dawson's initial problem was this:

Federal Pacific is a company that specializes in making equip-ment used to distribute and control electricity. Through new products and mergers, the company's sales in 15 years have soared from \$1-million a year to \$70-million. Last March, it acquired, through a merger, the \$30-million-a-year Cornell-Dubi-lier Electric Corp., putting it into the electronics business.

Dawson, as buyer,

Lowers Inventory, Wins such as screw machine parts, such as screw macaging. stampings, and packaging. stampings, and packaging. Federal

About a year ago, Federal Pacific's top management decided to redesign its corporate image to reflect its growth as a modern progressive company and, in part, to offset some of its grow-

ing pains.
When the decision was made, deadlines were set, and Raymond Lowey's Associates were hired to restyle packaging and trademarks

At the same time, to improve efficiency, purchasing of all packaging material in the firm's 20 things they did was to standard-sign which could be seen in any plants was centralized in Daw

son's hands.

Initially, Dawson's chief interest was in finding a vendor who could supply Federal's 45 carton sizes in the quantity (2.5-million annually) and under the conditions demanded. Ex-perience had taught him that it was absolutely necessary to find a vendor who was reliable and could provide the needed service. In Federal Pacific's case, service meant warehousing 60 to 90 days' supply of cartons. In addition, the vendor had to be willing to hold cartons if sales were

not up to anticipated demand.

After shopping around and conducting several facility surveys, Dawson chose Federal Carton Corp. of North Bergen, N. J. In many ways, he considers the firm an ideal vendor. "It's not too big to neglect our interests, and not too small to satisfy our spends needs," he said.

We take pleasure in announcing that

H. W. CHRISTENSEN

FORMER CHIEF PURCHASING EXECUTIVE

UNITED STATES STEEL CORPORATION, COLUMBIA GENEVA DIVISION 1959 Recipient J. SHIPMAN GOLD MEDAL AWARD

FORMER PRESIDENT, N. A. P. A.

Will become associated with our company effective June 1 AS

EXECUTIVE VICE PRESIDENT-COMMERCIAL

FISCHBACH AND MOORE

INCORPORATED

ELECTRICAL CONTRACTORS

545 MADISON AVENUE, NEW YORK 22, N. Y.

ATLANTA · CHICAGO · DALLAS · DENVER · DETROIT

GARY-EAST CHICAGO • GULFPORT • HOUSTON • LOS ANGELES MIAMI · ORLANDO · PITTSBURGH · SAN DIEGO · SAN FRANCISCO

SEATTLE . WASHINGTON, D. C.

There was an element of risk | involved. Federal Carton had not done \$50 worth of business with

Federal Pacific when selected.
"We gambled on each other,"
said Alan L. Moscou, the supplier's sales representative on the Federal Pacific account. As a result of meeting service requirements, Moscou expects Federal Carton to receive about \$100,-000 of Federal Pacific's business this year and has hope for a big share of Cornell-Dubilier's busi-

Dawson and Moscou worked together to design uniform pack-

assert that Lowey's organization and buy from a blueprint," Dawwith trademark and specs for color and type." But there still was industry and supplier technology to consider.

Dawson, therefore, recognized that certain modifications were P.A. Dawson to become a designer was Federal Pacific's own

that certain modifications were necessary. For example, on the original design, product informa-tion as to model, part and trade-mark appeared on only one end of the carton.

Dawson knew that Federal Pacific's distributors would juggle the boxes every which way when they used them. So he suggested

about for someone to make the

changes, he found himself alone. There was nothing to do but work

it out himself, as he was the one

no one would have made them.

who saw the defect.

assert that Lowey's organization and buy from a blueprint,"

signer was Federal Pacific's own production and sales depart-

In the midst of standardization and the consideration of new designs, Federal Pacific developed a new product, a fusible circuit breaker called Stab-in Unit. Production and top management were anxious to introduce the new product in the new package.

Thanks to the cooperation and coordination established between Dawson and Moscou, the new package was being delivered within 45 days (60 days in advance of the deadline). The prod-uct was able to appear in Fed-eral Pacific's new corporate dress.

Dawson firmly maintains that if purchasing had waited for blueprints with specifications, the deadline never would have been

As it turned out, Dawson's talent and impatience was a vir-tue which aided all of Federal Pacific's merchandising efforts.

Dawson modestly disclaims any special credit by citing the old proverb, "Necessity is the mother of invention."

Both Dawson and Federal Pacific were surprised by win-ning the design award. It was not that they lacked confidence in their work. They knew nothing about the contest. Federal Car-ton had submitted the design to-gether with the family of cartons which were part of the Federal Pacific new image. The Stab-in carton won top

Similar problems concerning color and type when introduced awards for general merchandis-ing, superiority in the hardware classification. Federal Pacific's into production runs, also had to be corrected. Moscou notes, "If Dawson hadn't made the changes, wson hadn't made the changes, one would have made them." was one of 33 winners selected "Buyers can't sit at a desk from almost 4,400 entries.



DESIGN TEAM: Federal Pacific P.A. Alan Dawson (left) and supplier sentative look over specifications for award-winning packet

ize on one carton thickness after | position. When Dawson looked consulting with various manufacturing and plant personnel throughout the Federal Pacific organization.

Another change was to drop the use of set-up boxes which were twice as expensive as fold-ing cartons. Working with the supplier and plants, Dawson was able to develop quantity runs and cut carton costs drastically. In one case the price of a certain-size carton dropped from \$100 per 1,000 to \$18 per 1,000. As a payoff from standardization work, Dawson expects to spend \$100,000 this year for what it cost Federal Pacific \$175,000 in 1959.

Although he had concentrated on working with his packaging supplier, Dawson had not expected to get into design work.
According to textbook procedures, engineering would provide
the specifications; all that would
be necessary would be the placing of the order.

Two things scuttled this theo-retical approach.

Both Dawson and Moscou

Versatile—and economical—fasteners... SEL-LOK spring pins

- 101 uses—as keys, cotter pins, axles, hinge pins, wrist pins, stop pins, pivots, etc.
- · Eliminate costly tapping, reaming, peening, milling
- · Swift fastening-just drill and drive Can be reused repeatedly
- Secure locking—won't work loose despite shock or vibration

SEL-Lok spring pins are available in carbon and corrosionresistant steel (from 1/16 x 3/16 through 1/2 x 5 in.) and beryllium copper (1/16 x 3/16 through 1/4 x 31/2 in.). See your authorized distributor for details or write us for Bulletin 2331 and samples.

JENKINTOWN 48, PENNSYLVANIA

INDUSTRIAL FASTENER Division

reational purchasing section for new equipment, service, and merchandise SACE UNITS: 1-6 inches.
RATES: \$20.70 per advertising inch-insertion. Contract rates gother against the service of the service o

### ROBOT OPERATORS CLOSE LOCK DOORS, GATES RESIDENTIAL & SPECIAL

### HARCOAL

rushed, screened, sized or Bulk. C/L or LCL OHIO VALLEY CHARCOAL COMPANY 1223 N. Columbus St. Lancaster, Ohio

In Canada: FISCHBACH AND MOORE OF CANADA, LTD., MONTREAL . TORONTO

# **Purchasing Perspective**

**MAY 2-8** 

(Continued from page 1)
new spots for supervisors without disrupting promotion opportunities of other employees

• But only 2% of the 2,800 persons affected by new computer operations were shifted into computer staff jobs. Older workers and general clerical help were passed over for the new jobs although about 80% of the new computer jobs were filled from within. The remaining 20% came from outside.

• Principal characteristics of computer personnel: male, 25 to 34 years old, some college education, previous experience in accounting, procedure analysis, or related work.

WHY EXPAND?-With U.S. industry scheduled to embark on a new plant and equipment spending splurge (see story p. 1), how does this move to increase production capacity (by both modernization and expansion) stack up against already plentiful production and material resources.

Manufacturers, now operating at only about 85% of productive capacity, expect 1960 sales to increase by 8%. For the threeyear period to 1960, the total additional sales increase is forecast

If industrial salesmen meet their quotas, home offices confidently forecast that the increases will boost operating rates close to preferred levels. In fact, a further demand for additional capacity will be heard by 1963, McGraw-Hill economists predict. Meanwhile, current expansion plans call for a 5% increase in manufacturing capacity in 1960, plus about 4% per year over the next three years.

BUYERS GUIDE—A nonferrous metals industry expert said last week: "Considering the imbalance between the world's supply of copper and demand, the domestic price of 33¢/lb. has been living on borrowed time." Foreign demand is the big factor in maintaining the current price . . . U.S. Steel's chairman Roger Blough again soft-pedaled price fears at the corporation's annual meeting last week. Said Blough: "I don't see any immediate change in the general situation (prices), one way or the other." And he further noted steel consumers' "more conservative attitude" on inventories, declaring steel stocks and production are at matching levels . . . both big steel and General Electric spoke from the same script last week in emphasizing that steel, the electric equipment industry, and industry in general are facing a period of intense competition that places a premium on ability to produce new products and processes.

### ILA Threatens St. Lawrence Port Strike in Bid for Union Recognition

ports from Buffalo to Cleveland as as result of the International Longshoremen's Association moves for new recognition and wage hikes comparable to deep water ports.

A meeting has been called for May 9 between shippers and the union. William Bradley, ILA president, has warned the owners there may be a strike May 15.

Behind the move is Bradley's desire to get the ILA again recognized as a bargaining unit and to ease the wage differences between Coast ports and the Great Lakes.

The ILA has been out of the picture since 1953 when the union was kicked out of the old AFL for racketeering. The pier union rejoined the AFL-CIO last year and took over contracts of the n o w defunct International Brotherhood of Longshoremen. Most of these contracts expired on or before May 1.

The ILA has promised to push for wage scales on the Great Lakes equal to those on deep water ports.

The basic rate on the New York docks is \$2.95 per hour; on the Gulf waterfront, \$2.75, and on the Gulf waterfront, \$2.75, and on the Great Lakes, \$2.33. Because of the wide differential it is believed the ILA will settle for less York, New Haven, and Hartford.

Chicago—A strike threat than deep sea rates. According to hangs over St. Lawrence Seaway one shipper, they will ask for the Gulf Coast scale

While there is a clear danger of a strike, some shipping in-terests do not believe there will be one, and consider the May 9 meeting a face-saving device to clear up the question of union recognition.

As one major shipper here reported, "we're going to the meeting and we're willing to listen. We're right in the middle. We don't know who to negotiate with."

### New England Rail Lines End Merger Discussions

Boston—Merger plans have been scuttled by six New England railroads after almost 18 months of intensive study.

E. Spence Miller, president of the Maine Central Railroad and chairman of the Association of New England Railroad Presidents, said last week that the carriers have decided a merger or feasible at the present time.

The six railroads studying mer-

# Shippers Gear for Benefits as First Guaranteed' Rail Rate Takes Effec

(Continued from page 1) became effective, since this type of rate has been bitterly opposed by truck and water carriers.

The confusion stems largely from the Commission's failure to issue a formal announcement or decision on the rate-one way or the other-and from the fact that truckers and water carriers did not file an immediate protest or apply for a court injunction.

Originally scheduled to take effect Apr. 10, 1959, the rate had been under suspension and study by the Commission for more than a year. Extensions of the normal seven-month suspension period the last of which expired Apr. 23, were agreed to by the Soo Line.

Only recently, the ICC asked for a further extension, but the carrier felt it could not agree, with the lake shipping season ap-proaching. So the guaranteed rate went into effect last week. The Commission still could rule out the rates, however, when it completes its formal investigation a few months hence.

contract with only one shipper—
Mannesman Tube Co. of Sault Ste. Marie, Ont.—and also applies over the Duluth, South Shoro & Atlantic, the Milwaukee Road, and the Chicago & North. Western Roads. Together these roads form alternate routes over which the oil field pipe shipments could move.

Under the contract, Mannes man Tube will pay \$10.05 per ton if it ships 90% or more of its total tonnage of pipe moving to Chicago by rail. Otherwise the rate will be \$12.18 per ton, the normal tariff rate on shipments of this type.

Other conditions include:

The shipper must notify the railroad 60 days in advance that he intends to use the guaranteed

• He must furnish an indemnity bond, agreeing to pay the normal tariff rate if his total tonage falls short of the 90%.

• Freight charges must be prepaid.

• The shipper's traffic records, insofar as they relate to the guaranteed rate, must be made rea-sonably available to rail representatives

"The advantages of guaranteed rates are tremendous," said Ross L. Thorfinnson, Soo Line's vice president of traffic. "The shipper knows what his transportation costs will be for a full year. "The railroads know how

they can prepare for it accordingly. Knowing these things in advance, we can quote a lower rate, which again benefits the

shipper."

The New York Central agreed charge is contracted with Mohasco Industries, Amsterdam, N. Y. The rate, covering cugs and carpeting, is \$1.55 (cwt) for the first 30,000 lb. in a car and \$1.25 (cwt) on everything in excess of that. To get this lower rate, however, the shipper must agree to ship 80% of his tonnage via the Central.

These new rates actually were these few fates actually were test cases for both railroads, with the Soo Line charge being the original "Guinea Pig" placed before the Commission.

Now the Soo and the Central

intend to follow up their intial success with a number of other guaranteed rates. While the Central declined to reveal what it has in the works, the Soo Line said it is working up similar rates for scrap iron and residual fuel oil. Meanwhile, as a result of last

tariffs now have been filed with the commission by freight consolidators-specific rates on volume shipments from point to point across the country—"with more on the way." In addition, at least one New York-based for-warder is planning "a large pur-chase of trailer equipment."

chase of trailer equipment."

"Not only has the ICC ruled in favor of us," one industry leader told Purchasing Week "but many shippers themselves have indicated they are strongly in favor of our piggyback opera-tions under Plan III." Under this service, he pointed out, shippers will benefit by:

• INCREASED SPEED: Forwarders say Plan III service will offer shippers as much as onethird faster deliveries because of combined rail-truck movement.

"As an example of the improved service," a spokesman for Lifschultz Fast Freight, New York, told PW, "we'll be able to provide second morning delivery from New York to Milwaukee, while the same shipment by rail box car would take three days."

much business is coming, and based on a flat fee piggyback rate offered by the railroads of \$451.50 to haul two loaded truck trailers between New York and Chicago with the shipper furnishing the trailers. The rates are about 12% to 16% below regular rail and trucking rates.

> **OVER-ALL** • REDUCED COSTS: Because shippers can cut down on the quantities they must ship or receive to obtain bulk rates, they'll be able to cut down on inventroy investment. Also, actual handling costs will

be lower.

"The purchasing agent, above all," commented a spokesman for Republic Carloading Corp., a New York freight forwarder, New York freight forwarder, "knows the cost of maintaining and warehousing big inventories. Because he'll now be able to buy smaller quantities, and still get essentially the same bulk transportation rates—and faster speed —he'll come to us for his ship-

The Republic official, along with other forwarders, denied charges by motor carriers that freight forwarders are "trying to put the trucker out of business.

"The fact that our trailer-onflatcar volume has increased over the past few months has not hurt the trucker," he said. "His business has also risen considerably. There's room for both the motor carrier and forwarder in transpor-

Major motor carriers disagreed, however, charging that the ICC ruling is a "complete violation" of the concept of U.S. transportation policy.

### Chicago & Eastern Illinois Reported in Rail Merger Talks With N. Y. Central

New York-Merger discussions are reported underway be-tween the New York Central Railroad and the Chicago & Eastern Illinois Railroad.

Alfred E. Perlman, New York Central persident, recently disclosed that the road was considering a merger with another line, but did not identify the line.

C&EI has been interested in joining with another road for a number of years. It carries a large volume of soft coal and serves the Midwest from Chicago, south to St. Louis and Evansville, Ind. C&EI connects with the New how decision involved volume rates Louis, and Terre Haute, Ind.

# Price Changes for Purchasing Agents

Item & Company	Amount of Change	New Price	Reason
INCREASES	Chunge		region
Gasoline, Esso, selected upstate N. Y. areas, consumer			
tnkwgn., gal	.01		seasonal demand
REDUCTIONS			
Aldehyde, C-8, lb	\$1.55	\$3.60	competition
Menthol, Brazilian, lb	.10	\$8,40	quiet demand
Niacinamide, USP, lb	.50	\$6.25	competition
Gum turps, So., gal	.01	.50	improved supply
Copra, Coast, ton	\$2.50	\$200.00	improved supply
Bone meal, ton	\$2.00	\$76.00	improved supply
Animal tankage, per unit nn	.15	\$4.35	improved supply
Citrol, CP, bots, lb	.15	\$3.60	improved supply

# Late News in Brief

### Mitchell Proposes ICC Overhaul

Chicago—Secretary of Labor James P. Mitchell last week called for a gradual elimination of government subsidies to rail-"fundamental overhauling of the Interstate Comroads and a merce Commission.

Speaking before the railway employees' department of the Mitchell said the time had come for a change in national transportation laws as well as systems for collective bargaining. He called for an early settlement of the labor-rail dispute now threatening paralysis of the nation's transportation.

### 'Modernize Rates—or Else'

New York-Common motor carriers were warned last week to modernize their rate structure or face possible extinction.

Speaking before the National Association of Shipper Motor Carrier Conferences here, F. S. Thompson, traffic vice president of Western Express Co., Cleveland, said truckers today should cease "making up on apples what they lost on potatoes," and aim for consistency in all traffic rates.

### **Machine Tool Orders Rise**

Washington-The National Machine Tool Builders Association last week reported a rise in machine tool orders for the first quarter of this year to the highest level since the same period in 1957.

The present level of \$178-million worth of orders, however, is still 19% below the 1957 figures. The Association attributed the rise to an increase of orders from overseas. Exports represent some 24% of current orders, the report stated.

### **Texas Wins Injunction**

Austin—The State of Texas has won a permanent injunction and a \$15,000 judgment in an antitrust suit against a major manufacturer of engineering drafting equipment.

In ruling for the state, Judge Charles O. Betts, 98th District Court, said that Hamilton Manufacturing Co. had, in fact, fixed the prices its distributors had submitted under sealed bids

# Disposable Tools Get Spotlight At Detroit Engineering Show

(Continued from page 1) that there is no reason why tool prices should be increased in the light of steady material and

Drill makers attribute the increases to "readjustment," but this term brought a very indignant comment from a user, who told PW, the current hike makes a total boost of 24% in nine months. "I think that it took a hell of a lot of nerve for them to throw an increase at us now," he said. "Many distributors are known to be keeping old priceseven after issuing new lists.

Small drill makers haven't

gone along with the increase, but have adopted a wait-and-see attitude. "Personally I don't think the current 12% will stick but if it does, we'll raise our prices to the industry average," was a

typical comment.
Although use of disposable tooling has been increasing slowly in recent years, current industry interest has made "throw-aways" tooling's "hottest prod-

Manufacturers have expanded their insert lines to include almost every type of cutting operation and a wide selection of and shapes are now available. Major reasons for the switch to disposables: high cost of down-time and lack of skilled labor.

Newest inserts are being made with as many as 20 cutting edges. The operator loosens a screw and rotates the insert to a sharp edge as soon as one edge is dull. When all are used, the tool is thrown

away.
This contrasts with the old practice of regrinding an entire tool every time a new edge was designed to automate grinding.

needed. Moreover, skilled labor was needed to regrind the tools and no two operators did the same type of job. "With inserts, the manufacturer knows that he is getting the same cutting edge every time," an official for a cutter manufacturer explained.

Chrysler Corp's Joseph Hein-miller reported that "parts pro-duced per cutting edge have in-creased as much as 50% with throwaway tooling. We now have established that there is more tool life in the mechanically held carbide tip than in the brazed-tip construction tool."

Toolholders are being designed

with built-in adjustment features to allow the operator to get pre-cise tool settings without making half-a-dozen cuts. New microm eter setups allow putting the tool into final adjustment after a sin-

gle trial run.

The micrometer is giving way slowly to electronic and air gages. There's no other way to measure accuracies of a millionth of an inch—and that's what we're working with today," one gage maker noted. "We can measure everything from thickness to sur-face roughness electronically," he added—and he was surrounded by the instruments to prove it.

A variety of devices to automate machine tools were on display, but exhibitors expressed the belief that progress towards automated tools were moving at a snail's pace.

"We have no trouble selling management on what we can do, but when it comes to the unions -that's a different story," salesman explained, while dem-

# U.S. Steel Enters Thin-Skin Plate Can in Battle With Aluminum, Plastics for Container Market

require some change in can man-

gidity in the finished container-

ufacturing facilities—but not a complete change.

The new product has added strength and rigidity, according to the U. S. Steel official, quali-

ready had adequate stockpiles of the three metals. GSA contends that it was

merely carrying out instructions from the Office of Civil and De-

fense Mobilization in arranging a contract. OCDM argues there was a need for the metals at the

commitments for purchase of a remaining \$10.5-million of the metals. In settlement, \$2.5-mil-

time of contract negotiations. However, the government in January of this year cancelled

(Continued from page 1)
new plate has great potential for both general line and sanitarytype cans. He said its use would ties that may be helpful in mainties that may be helpful in maintaining the high-speed production high potentials in many areas.

Among them are cans for frozen concentrates, quart oil cans. and concentrates, quart oil cans, and cans for detergents and paints."

Aluminum and plastic con-tainers have been making rapid inroads into these marketsaluminum for frozen concentrates and oil, and plastics for deter-gents and household products. An American Can Co. spokes-

man confirmed that Canco is pushing ahead its research and experiments with the new product, but agreed with Meneilly that no one can predict just when it will be available commercially.

The best estimates, however are that the new tinplate will not reach the market for over a year —until new rolling mills are built to make it.

A spokesman for Continental Can Co., Inc., told Purchasing Week that Continental has been experimenting with the new tin plate for a year and has found test results encouraging. "The tensile strength of the tin plate is adequate," he said, "but it has increased stiffness and hardness which cause certain problems in can-making lines. We don't feel

Government's Electronic and Metal Buying Practices Come Under Fire

Washington—The General capacity for nickel, cobalt and Accounting Office has blasted the Administration for its procurement practices in acquiring tract because the government alcertain electronic equipment and

In two separate reports sent to congress this month, the watch-

dog agency charges:

• The Army was overcharged
\$620,000 for ground radio communication sets under a contract with Collins Radio Co., Cedar Rapids, Iowa. GAO alleges that a 10% excise tax on all spare parts used in the radio was included in cost estimates prepared for the Army, even though the excise tax did not apply in most cases on equipment sold to the government.

• The General Services Administration entered into a \$27million contract with National Lead Co., New York, to stock-pile cobalt, nickel, and copper that wasn't needed.

In the case of Collins Radio, GAO says the Army recovered some \$685,000 on the contract. GAO says the Army has given assurances that steps have been taken that should help prevent a recurrence of such pricing practices on future contracts.

In the case of National Lead, GAO says the General Services Administration in December. 1956, issued a contract to the company with the aim of helping expand the nation's productive

Electronics Firm Files

Anti-Trust Damage Suit

Asking for 1.5-Million

firms, which Grinnel allegedly

organization with attempting to

force Robinson Electronics out

of business through monopolistic

practices, and charges further that all five firms are violating

the Sherman and Clayton Anti-

trust Acts.

Both plaintiff and defendants

install and operate burglar and fire alarm systems. The damage suit claims that Grinnel "controls

and is able to maintain its cus-tomers and determine prices and

policies without regard to such limited competition as exists." The four other defendants are

The American District Tele-graph Co., The Automatic Fire Alarm Co., The Philadelphia Lo-

cal Telegraph Co., and Holmes Electric Protective Co. of Phila-

major share of the market

The suit charges the Grinnel

'owns or controls."

### lion in surplus nickel was turned over to National Lead. Economics Professor Tells P. A.'s: Buy Here or Abroad, as You See Fit

(Continued from page 1) urged P.A.'s to take a closer look concern themselves with this at home industries. question at all. "Some American businesses will be hurt under free trade, but long term benefits out-weigh protectionist tariffs," he declared.

"The calamity howlers gener ally are the marginal operators, who operate on the 'buddy-buddy' golf course or bar sysbuddy' golf course or bar system of selling, not those capable of good competitive merchandising," he added

ing," he added.

Alvaro Vito Beltrani, St.

Louis' Italian consul suggested too many American businessmen are running to a wailingwall be-cause of a few setbacks in overseas trade. However, he declared 'the best way to world peace is free international trade.'

He suggested business concentrate on techniques that made the U.S. the No. 1 capitalistic nation—new products for mass production.

"High tariff walls will not help America, but restrict trade all over the world," he declared.

speakers, Other

### Philadelphia—A \$1.5-million damage suit has been filed in U.S. District Court here by the Robinson Electronics Supervisory Co., Inc. against the Grinnel Corp. and four other Philadelphia

Canadian Oilman Predicts Rise in Exports of Crude

Hamilton, Ont.—A top Canadian oil executive predicts his country's oil exports will more than double within ten years. Vernon Taylor, a director of

Imperial Oil Co., told a local meeting of the Canadian Manufacturers' Assn. that the U.S. would provide a major outlet for Canadian oil in "such areas as the Great Lakes, Minnesota, and Puget Sound." Canada currently is exporting some 50,000 barrels of crude a day.

Taylor predicted that Canadian oil production would reach a level of 1¼-million barrels a day by 1970—or two and a half times 1959 production.

Leo G. Peck, vice president, Peck's Products, St. Louis, said most local firms offer P.A.'s nearly all needs—and that "a local market when properly utilized spells out lower inventory and solutions to buying problems as close as your local telephone call.

Joseph P. Clark, head of St. Louis AFL-CIO Central Trades and Labor Union, representing 150,000 St. Louis area unionists, said that, although labor has "consistently favored reciprocal trade, the federation is becoming increasingly concerned" about some types of foreign competi-

tion.
"When you see union auto
workers drive out of assembly
foreign made cars plants with foreign made cars while their own industry suffering, it makes you wonder," he declared.

E. F. Andrews, director of purchases, Allegheny Ludlum Steel Corp., declared "American industrial might must prepare itself to compete on a world market as it did several years ago on a national market when there were howls of unfair competition from Southern states."

To achieve more overseas sales, he said, American business must:

(1) Have improved depreciation laws.

(2) Get tax consideration on research expenditures.

(3) Recognize the cost factors in various make-work rules and get cooperation of labor to eliminate the practices.

(4) Accept responsibility for political activity to create a climate conducive to meeting

foreign competition.
(5) Do some good old fashioned purchasing cost reduction by buying the best products at the best value for his company.

# Fewer Item Varieties Lowers Indirect Costs: Simplifies Inventory Control and Purchasing

(Continued from page 1) while indirect costs have been mounting and ignored."

He said that while it is difficult to measure and put a dollar value on indirect costs, it is certain that tremendous savings could be achieved in this area—through such techniques as variation reduction.

Emphasis on reducing item varieties is a new activity at Burroughs, and Abele's eight-member staff is devoting 50% of its time to developing a catalogue

of priority parts.

To make his point about achieving savings through variation reduction, he quoted Perkins McGuire, Asst. Secretary of De-fense for Supply and Logistics: "More than 500,000 new items

enter the system every year, and an equal number are eliminated. If you consider that we save about \$1-million a year in man-agement expenses for every 1,000 items eliminated from our supply system, you may get an idea of the attendant savings in such a standardization effort."

### Private Industry Can Profit

Private industry probably cannot save \$1,000 an item per year through reduction of varieties, but a company the size of Burroughs, with a vigorous program, may be able to save a total of \$1-million annually, Abele said.

He listed just a few indirect

costs generated by the entry of new items, such as engineering analysis, prototype studies, draw-ings, entering into engineering records, tooling and processing, keeping production records, devising and printing processing cards and assembly instructions, time and motion studies, pur-

time and motion studies, purchasing information, inspection gages, and service cataloguing.

"Just to maintain a part in the system means ordering it several times a year, setting up time if it is manufactured, and vendor analysis records if it is purchased, receiving inspection, engineering changes, and other things," the standards engineer explained. "All this, plus inventory costs, may amount to as much as 25% of the item's cost."

Abele pointed to riveted spring studs as an example: The tiniest variation in dimension requires a new part number, and Burroughs currently has numerous spring studs listed in its standard parts catalogue. Sometimes, he ex-plained, two different persons put the same element, with different model numbers and names, into

### SEARCHLIGHT SECTION

CLASSIFIED ADVERTISING BUSINESS OPPORTUNITIES
DUIPMENT—USED or RESALE



TORS + GENERATORS NEW · REBUILT

CALL COLLECT GL 3-6783 BOX 51 . ROCHESTER 1

WANTED SURPLUS PACKAGING MATERIAL Corrugated Cartons • Folding Boxes Bags • And All Types of Paper BERRY BOX CO., INC. 376 Vernon Ave. Brooklyn 6, N. Y. GLenmers 5-9402

the system when they are pur-chased from different vendors,

thus doubling costs.
Also, two barely different bolts Also, two barely different bolts often are chosen arbitrarily to do similar jobs when one would serve both. Controlling the engineer—making him realize he engineers cost into the product—is only half the battle, he stressed. "The purchasing agent has two vital jobs in the project." has two vital jobs in the project," he said. These are:

• Policing the system—seeing to it that new items are not introduced when existing ones are adequate.

• Feeding information to engineering about vendors' new products and developments for the sake of progress and improvement. This requires the P.A. to know the product and the technical aspects of improving it, plus good value analysis methods and vendor evaluation techniques

### BURROUGHS' ATTACK ON ITEM VARIETIES

First, limiting planned variety by putting limitations in design. This is done by classification:

(A) Survey the existing parts in the system.

(B) Segregate parts into specific classes or codes.
(C) Catalogue the parts and insist the engineers use the catalogue whenever possible.
Second, reducing excessive existing varieties by simplification and unification. To simplify:

(A) Weed out excess varieties without changing what's left. (B) Merge remaining varieties by making them interchange-

able where possible. (C) Remember that when changes are required, the indirect cost to remove the part is less than the cost to retain it.

To unify or standardize:

(A) Recognize national, industrial, or government standards.
 (B) Give preference to standard parts. This provides further



# MAKE YOUR OWN COMPARISON . . **CALL ANDREW 8-4409 COLLECT**



We believe we can prove on your next O.E.M. application that you can save 25% in actual costs when you specify Grant customized gears, instead of making time-consuming alterations to stock gears to fit your needs.

So call us - collect - we will gladly quote on your needs, no obligation, of course.

CALL COLLECT — THE NUMBER IS ANDREW 8-4409 FOR THE BEST IN CUSTOMIZED GEARS.

GRANT GEAR WORKS, INC. WEST SECOND STREET, BOSTON 27, MASS.

Catalog Available on Customized Gears • Precision Gears • Speed Reducers



# Roebling Tire Bead Wire: Packaged for Maximum Benefit

The problems eliminated by this unique reel-less core packaging system are manifold. Loads are palletized two cores per pallet and may be stacked two or three high. This, plus the fact that you need not accumulate empty reels, means storage space requirements are cut to less than half. You do away with all freight and handling costs on reels, the bother and expense of "bookkeeping" returnable reels, and the freezing of money in reel deposits.

This is typical of Roebling's advanced packaging methods—that make handling Roebling high-quality wire so much easier. For details on this efficient Roebling Tire Bead Wire packaging method, or information on other types of Roebling wire, write Wire and Cold Rolled Steel Products, John A. Roebling's Sons Division, Trenton 2, New Jersey.

Roebling . . . Your Product is Better for it

ROEBLING

Branch Offices in Principal Cities

John A. Roebling's Sons Division, The Colorado Fuel and Iron Corporation